

**SAMSUNG**

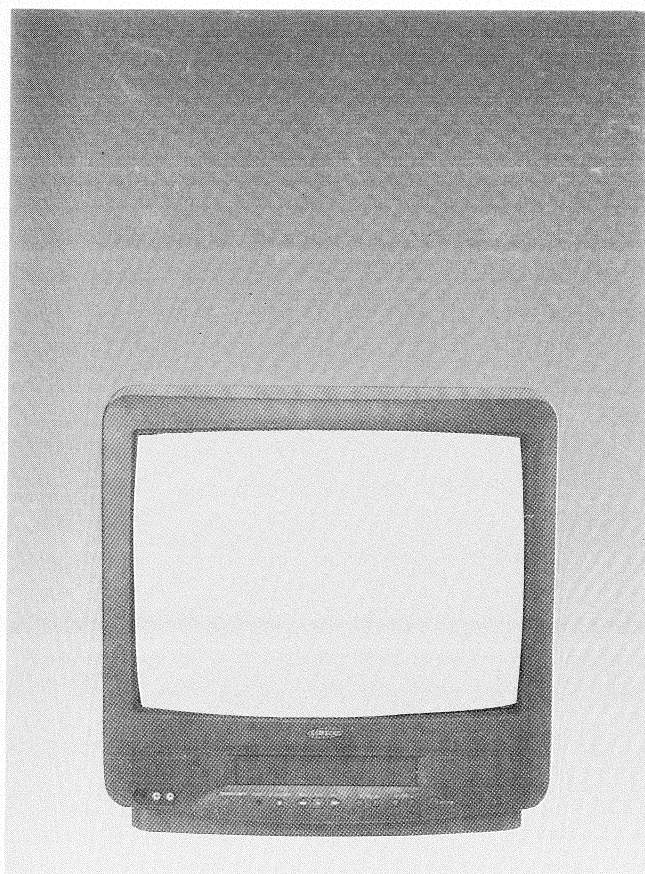
# Television Video Cassette Recorder

CHASSIS : SCV11A,B

MODEL : TVP3350X

# ***SERVICE*** Manual

## Television Video Cassette Recorder



## CONTENTS

1. Precautions
2. Specifications
3. Disassembly and Reassembly
4. Alignments and Adjustments (Mechanical)
5. Alignments and Adjustments (Electrical)
6. Troubleshooting
7. Exploded Views and Parts List
8. Electric Parts List
9. Block Diagrams
10. PCB Layout
11. Wiring Diagrams
12. Schematic Diagrams

# **IMPORTANT NOTICE ABOUT THE X-5 CHASSIS JIG**

## **APPLICATION NOTES**

1. If the remote control is available:

After replacing the cylinder assembly, the remote control (part number: 69 99-633-252) can be used during the "X-point tracking center" (tape path alignment) and "head s/w point" adjustments.

"X-point tracking center" Adjustment:

Press the "1" and "INPUT" buttons simultaneously. This will adjust the tracking center automatically.

"Head s/w point" Adjustment:

Press the "3" and "INPUT" buttons simultaneously. This will automatically position the H'd s/w at  $6.5H \pm 0.5H$ .

2. If the remote control is not available:

See the mechanical manual for X-point Tracking Center adjustment.

See the service manual for Head S/W point adjustment.

## **SERVICE GUIDE**

For this VCR chassis, the program switch and the sensors (start/end/reel) are located on the main PCB (not on the deck ass'y).

When the deck assembly is connected to the main PCB, all repairs are possible.

Important : To repair the main PCB without the deck assembly connected, the X-5 chassis jig must be used.

To emulate the sensors, push the "SERVICE" key (SW711) on the function-timer PCB.

The X-5 chassis jig can be used for the following:

- When repairing or confirming the operation of the deck ass'y.
- When replacing or repairing the components located under the deck ass'y
- When repairing the function-timer PCB.

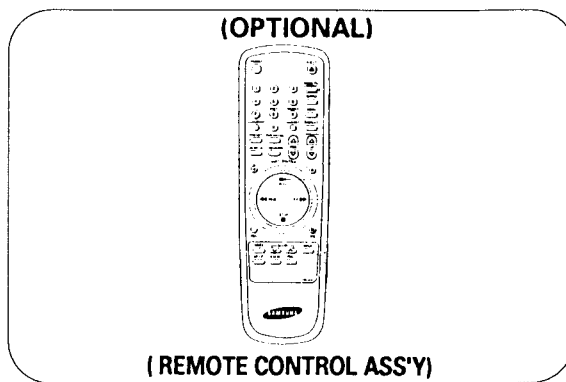
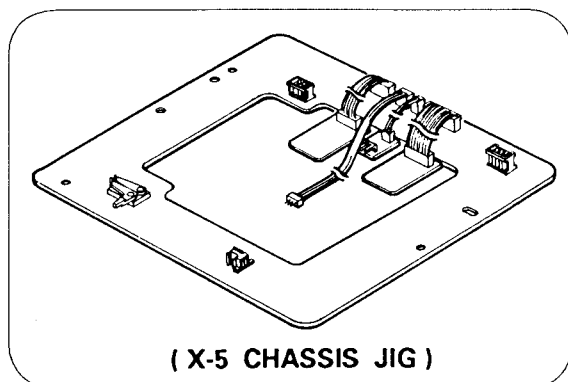
The X-5 chassis jig cannot be used for:

- Repairing defects in the video section.
- Repairing defects in the audio section..
- Repairing defects related to tape speed.

Repair might not be possible if external noise exists between the deck assembly and main PCB.

If the tape control signal is not connected to the jig, the VCR must be operated in SP mode.

JIG ITEM	PART NO.	USE
X-5 CHASSIS JIG	68140-500-013	Connects the deck ass'y to the main PCB connecting cable.
REMOTE CONTROL ASS'Y	69099-633-252	X-point tracking center & head S/W point adjustment.



# 1. Precautions

Follow these safety, servicing and ESD precautions to prevent damage and protect against potential hazards such as electrical shock and X-rays.

## 1-1 Safety Precautions

1. Be sure that all of the built-in protective devices are replaced. Restore any missing protective shields.
2. When reinstalling the chassis and its assemblies, be sure to restore all protective devices, including: nonmetallic control knobs and compartment covers.
3. Make sure that there are no cabinet openings through which people--particularly children--might insert fingers and contact dangerous voltages. Such openings include the spacing between the picture tube and the cabinet mask, excessively wide cabinet ventilation slots, and improperly fitted back covers.

If the measured resistance is less than 1.0 megohm or greater than 5.2 megohms, an abnormality exists that must be corrected before the unit is returned to the customer.

4. Leakage Current Hot Check (Figure 1-1):  
Warning: Do not use an isolation transformer during this test. Use a leakage-current tester or a metering system that complies with American National Standards Institute (ANSI C101.1, *Leakage Current for Appliances*), and Underwriters Laboratories (UL Publication UL1410, 59.7).
5. With the unit completely reassembled, plug the AC line cord directly into a 120V AC outlet. With the unit's AC switch first in the ON position and then OFF, measure the current between a known earth ground (metal water pipe, conduit, etc.) and all exposed metal parts, including: antennas, handle brackets, metal cabinets, screwheads and control shafts. The current measured should not exceed 0.5 milliamp. Reverse the power-plug prongs in the AC outlet and repeat the test.

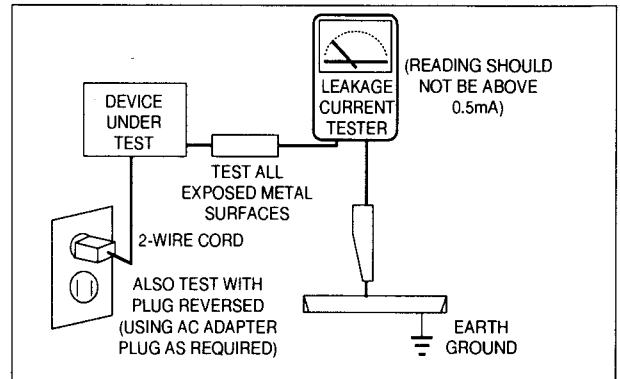




Fig. 1-1 AC Leakage Test

6. Antenna Cold Check:  
With the unit's AC plug disconnected from the AC source, connect an electrical jumper across the two AC prongs. Connect one lead of the ohmmeter to an AC prong. Connect the other lead to the coaxial connector.
7. X-ray Limits:  
The picture tube is especially designed to prohibit X-ray emissions. To ensure continued X-ray protection, replace the picture tube only with one that is the same type as the original. Carefully reinstall the picture tube shields and mounting hardware; these also provide X-ray protection.
8. High Voltage Limits:  
High voltage must be measured each time servicing is done on the B+, horizontal deflection or high voltage circuits. Correct operation of the X-ray protection circuits must be reconfirmed whenever they are serviced. (X-ray protection circuits also may be called "horizontal disable" or "hold-down".)

Heed the high voltage limits. These include the *X-ray Protection Specifications Label*, and the *Product Safety and X-ray Warning Note* on the service data schematic.

## 1-1 Safety Precautions (Continued)

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9. High voltage is maintained within specified limits by close-tolerance, safety-related components and adjustments. If the high voltage exceeds the specified limits, check each of the special components.
10. Design Alteration Warning:  
Never alter or add to the mechanical or electrical design of the TVCR. Example: Do not add auxiliary audio or video connectors. Such alterations might create a safety hazard. Also, any design changes or additions will void the manufacturer's warranty.
11. Hot Chassis Warning:  
Some TV receiver chassis are electrically connected directly to one conductor of the AC power cord. If an isolation transformer is not used, these units may be safely serviced only if the AC power plug is inserted so that the chassis is connected to the ground side of the AC source.  
  
To confirm that the AC power plug is inserted correctly, do the following: Using an AC voltmeter, measure the voltage between the chassis and a known earth ground. If the reading is greater than 1.0V, remove the AC power plug, reverse its polarity and reinsert. Re-measure the voltage between the chassis and ground.
12. Some TV chassis are designed to operate with 85 volts AC between chassis and ground, *regardless of the AC plug polarity*. These units can be safely serviced *only* if an isolation transformer is inserted between the receiver and the power source.
13. Some TV chassis have a secondary ground system in addition to the main chassis ground. This secondary ground system is not isolated from the AC power line. The two ground systems are electrically separated by insulating material that must not be defeated or altered.
14. Components, parts and wiring that appear to have overheated or that are otherwise damaged should be replaced with parts that meet the original specifications. Always determine the cause of damage or overheating, and correct any potential hazards.
15. Observe the original lead dress, especially near the following areas: Antenna wiring, sharp edges, and especially the AC and high voltage power supplies. Always inspect for pinched, out-of-place, or frayed wiring. Do not change the spacing between components and the printed circuit board. Check the AC power cord for damage. Make sure that leads and components do not touch thermally hot parts.
16. Picture Tube Implosion Warning:  
The picture tube in this receiver employs "integral implosion" protection. To ensure continued implosion protection, make sure that the replacement picture tube is the same as the original.
17. Do not remove, install or handle the picture tube without first putting on shatterproof goggles equipped with side shields. Never handle the picture tube by its neck. Some "in-line" picture tubes are equipped with a permanently attached deflection yoke; do not try to remove such "permanently attached" yokes from the picture tube.
18. Product Safety Notice:  
Some electrical and mechanical parts have special safety-related characteristics which might not be obvious from visual inspection. These safety features and the protection they give might be lost if the replacement component differs from the original--even if the replacement is rated for higher voltage, wattage, etc.  
  
Components that are critical for safety are indicated in the circuit diagram by shading, () or (). Use replacement components that have the same ratings, especially for flame resistance and dielectric strength specifications. A replacement part that does not have the same safety characteristics as the original might create shock, fire or other hazards.



## 1-2 Servicing Precautions

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**Warning1:** First read the "Safety Precautions" section of this manual. If some unforeseen circumstance creates a conflict between the servicing and safety precautions, always follow the safety precautions.

**Warning2:** An electrolytic capacitor installed with the wrong polarity might explode.

1. Servicing precautions are printed on the cabinet. Follow them.
2. Always unplug the unit's AC power cord from the AC power source before attempting to: (a) Remove or reinstall any component or assembly, (b) Disconnect an electrical plug or connector, (c) Connect a test component in parallel with an electrolytic capacitor.
3. Some components are raised above the printed circuit board for safety. An insulation tube or tape is sometimes used. The internal wiring is sometimes clamped to prevent contact with thermally hot components. Reinstall all such elements to their original position.
4. After servicing, always check that the screws, components and wiring have been correctly reinstalled. Make sure that the portion around the serviced part has not been damaged.
5. Check the insulation between the blades of the AC plug and accessible conductive parts (examples: metal panels, input terminals and earphone jacks).
6. Insulation Checking Procedure: Disconnect the power cord from the AC source and turn the power switch ON. Connect an insulation resistance meter (500V) to the blades of the AC plug.  
  
The insulation resistance between each blade of the AC plug and accessible conductive parts (see above) should be greater than 1 megohm.
7. Never defeat any of the B+ voltage interlocks. Do not apply AC power to the unit (or any of its assemblies) unless all solid-state heat sinks are correctly installed.
8. Always connect a test instrument's ground lead to the instrument chassis ground *before* connecting the positive lead; always remove the instrument's ground lead last.

## 1-3 Precautions for Electrostatically Sensitive Devices (ESDs)

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1. Some semiconductor ("solid state") devices are easily damaged by static electricity. Such components are called Electrostatically Sensitive Devices (ESDs); examples include integrated circuits and some field-effect transistors. The following techniques will reduce the occurrence of component damage caused by static electricity.
2. Immediately before handling any semiconductor components or assemblies, drain the electrostatic charge from your body by touching a known earth ground. Alternatively, wear a discharging wrist-strap device. (Be sure to remove it prior to applying power--this is an electric shock precaution.)
3. After removing an ESD-equipped assembly, place it on a conductive surface such as aluminum foil to prevent accumulation of electrostatic charge.
4. Do not use freon-propelled chemicals. These can generate electrical charges that damage ESDs.
5. Use only a grounded-tip soldering iron when soldering or unsoldering ESDs.
6. Use only an anti-static solder removal device. Many solder removal devices are not rated as "anti-static"; these can accumulate sufficient electrical charge to damage ESDs.
7. Do not remove a replacement ESD from its protective package until you are ready to install it. Most replacement ESDs are packaged with leads that are electrically shorted together by conductive foam, aluminum foil or other conductive materials.
8. Immediately before removing the protective material from the leads of a replacement ESD, touch the protective material to the chassis or circuit assembly into which the device will be installed.
9. Minimize body motions when handling unpackaged replacement ESDs. Motions such as brushing clothes together, or lifting a foot from a carpeted floor can generate enough static electricity to damage an ESD.

# Memo

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## 2. Specifications

<b>TELEVISION</b> Colour system TV standards Number of channels Reception range/cable TV Aerial input	PAL/SECAM Multistandard L/L' (Option), B/G, D/K (Option) 100 Hyperband/interband tuner 75 Ohms, coaxial cable
<b>VCR</b> Format Heads  Video system Audio system Luminance Colour Wow and flutter (WTD) Frequency response	VHS standard (PAL/SECAM Option)/MESECAM/NTSC in playback only) Video: 2 rotary heads, LP (Option), 4 Heads (Option) Audio/Control: 1 stationary head (linear) Erase: 1 full track erase head CCIR standard Mono FM azimuth recording Down converted subcarrier phase shifted direct recording 0.4% maximum (SP) 100Hz - 8 KHz
<b>GENERAL</b> Power supply Consumption Audio output power Number of loudspeakers Tube size Tube type Sockets  Dimensions(W x D x H) Weight Operating temperature Relative humidity	0220-240V~50Hz, 110-260V~50/60Hz (Option) TVP3350 (80W), TVP5050 (100W), TVP5350 (105W) TVP3350 (2.0watts), TVP5050, TVP5350 (2Watts x 2) TVP3350 (1), TVP5050, TVP5350 (2) 14" (37 cm), or 20" (51 cm), 21" (55 cm) BLACK MATRIX 1 full RGB SCART: Rear 1 RCA input (audio and video): Front Earphones (3.5 mm mini-jack) 1 aerial/cable TV coaxial input TVP3350 (362x383x382), TVP5050 (482x465x479), TVP5350 (502x494x498) TVP3350 (12.5kg), TVP5050 (22KG), TVP5350 (25kg) 5° C - 40° C (41° F-104° F) 10%-75%
<b>OPTION TABLE</b>	
Screen Size  No. of tuners  SHOWVIEW VIDEOplus Teletext PDC (Netherlands, etc.) VPS (Germany, Austria, Swiss only) Model name example: TVP5350XST	14": TVP3350, TVCR346 20": TVP5050 21": TVP5350, TVCR516 1 tuner: TVP3350X, TVP5040F, TVP5050X 2 tuner: All other models TVP5050XST, TVP5350XST TVP5050IST, TVP3350IST TVP5050X(S)T, TVP5350X(S)T, TVP5050IST, TVP3350XT, TVP3350IT TVP5350X(S)T TVP5050X(S)T, TVP5350X(S)T, TVP3350X X : PAL/SECAM B/G S : SHOWVIEW or VIDEOplus T : Teletext

Specifications are subject to change without notice

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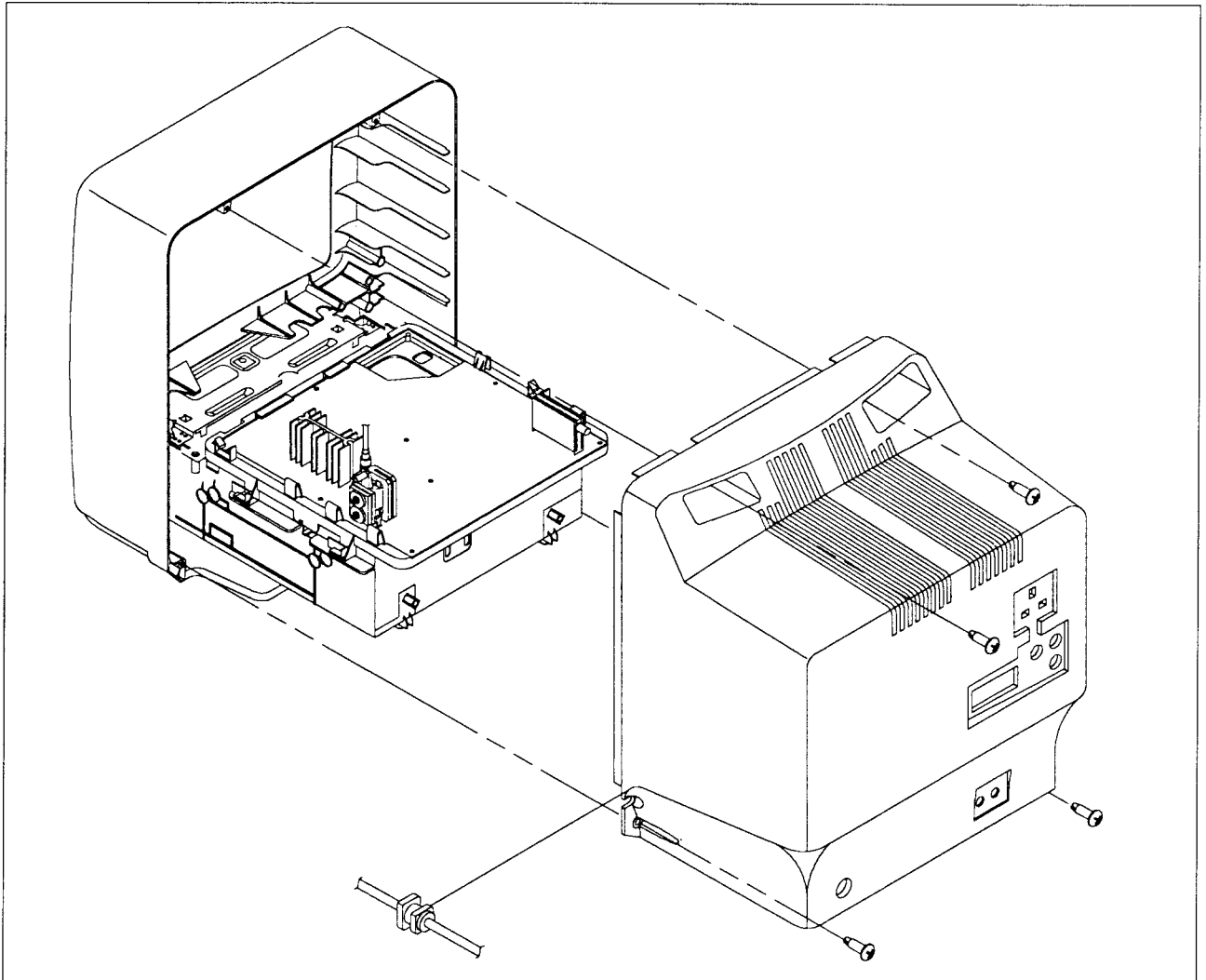
## 3. Disassembly and Reassembly

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### 3-1 Disassembly

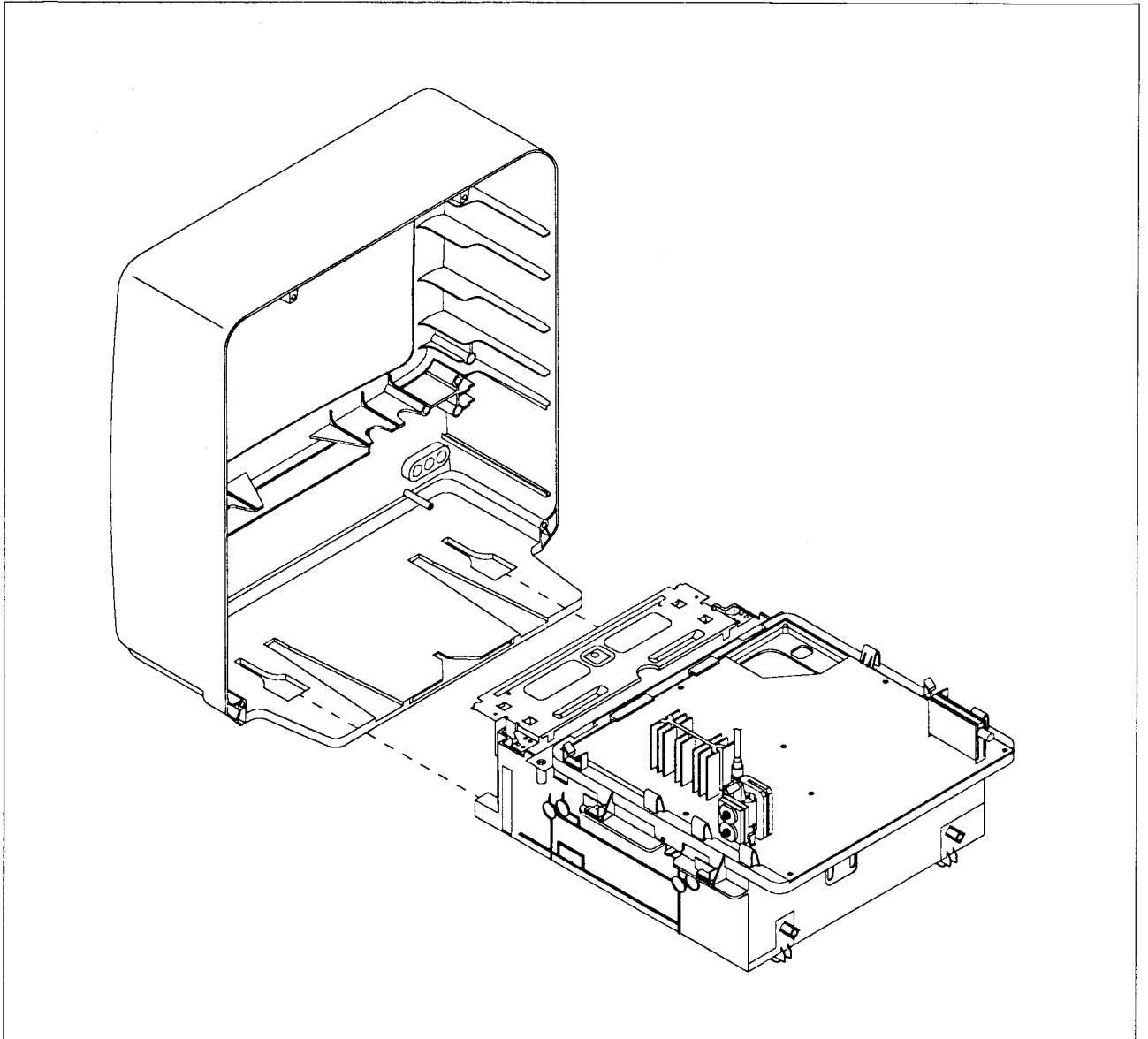
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#### 3-1-1 Back Cover Removal



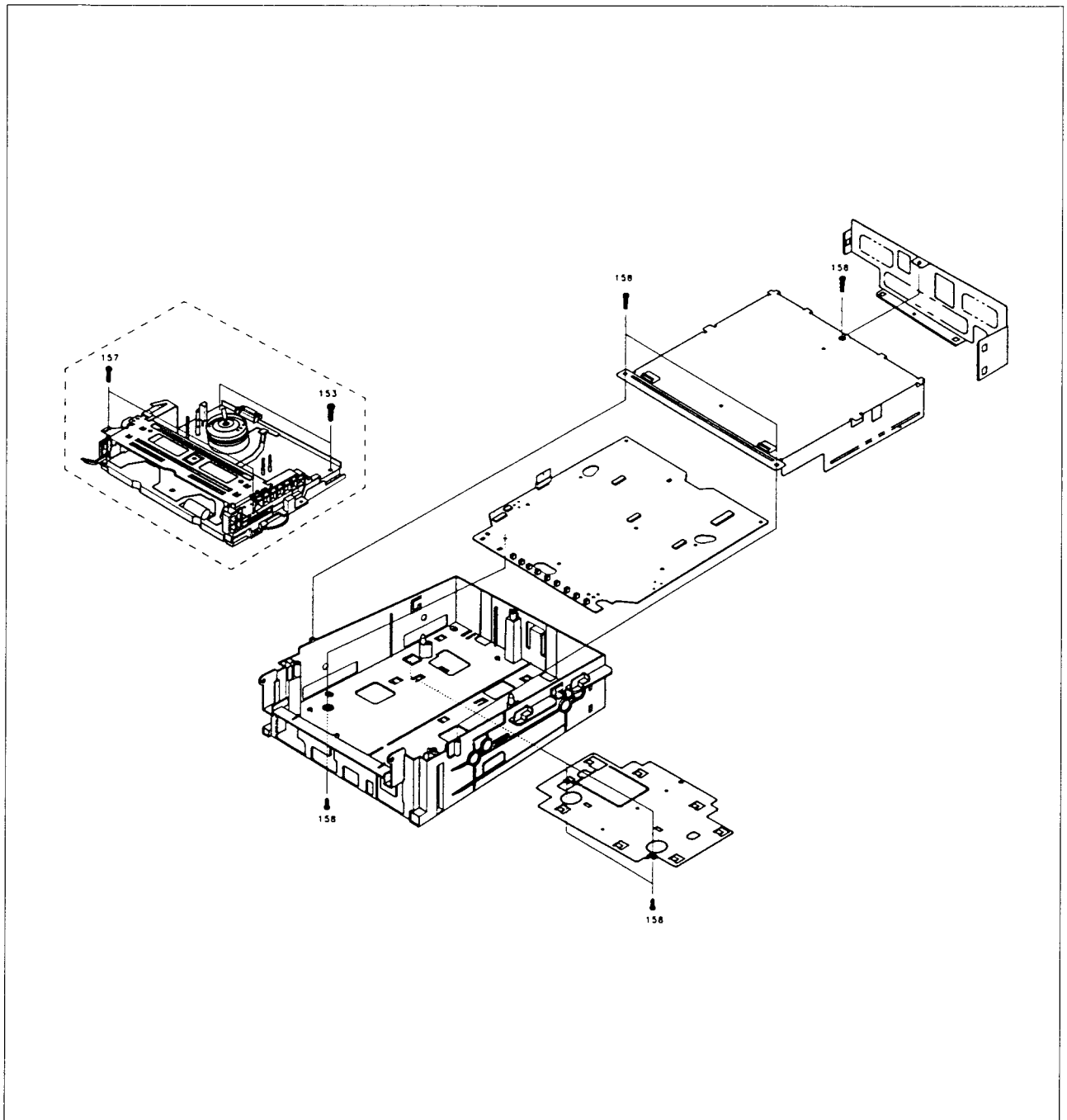
1. Remove the screws located on the side of the back cover.
2. Pull the Main Assembly backward and remove it from the mainframe.

### 3-1-2 Main Assembly Removal



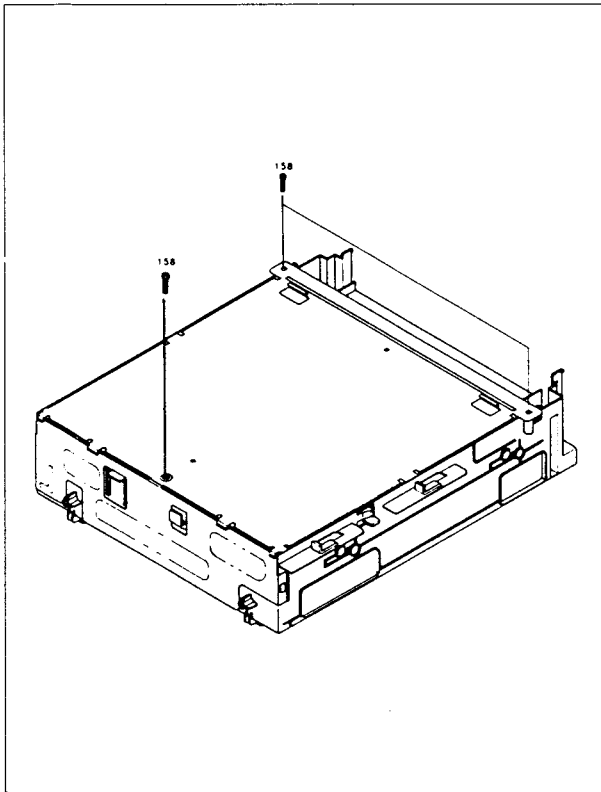
1. Release two connectors between Sub PCB and Main Assembly.
2. Pull the Main Assembly backward. Remove it from the Main Frame.

### 3-1-3 Monitor Frame Removal



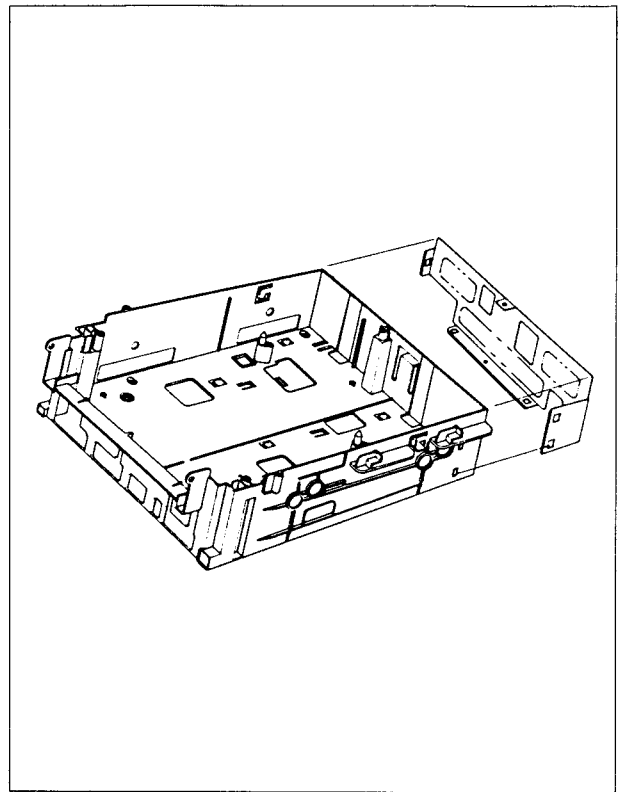
1. Remove 2 screws from the Main Assembly. Remove the dust cover.
2. Remove 2 screws from the Deck Assembly. Remove the dust-cover bracket .

### 3-1-4 Deck Assembly Removal



1. Remove 4 screws holding the bottom cover.
2. Remove one screw from Main PCB assembly.  
Take off the deck assembly

### 3-1-5 Main Assembly Removal



1. Remove 2 screws holding the upper chassis housing.
2. Remove 3 screws holding the deck assembly.
3. Lift the deck assembly upward to remove.



## 4. Alignments and Adjustments (Mechanical)

### 4-1 Deck Parts Locations

#### 4-1-1 Deck, Top View

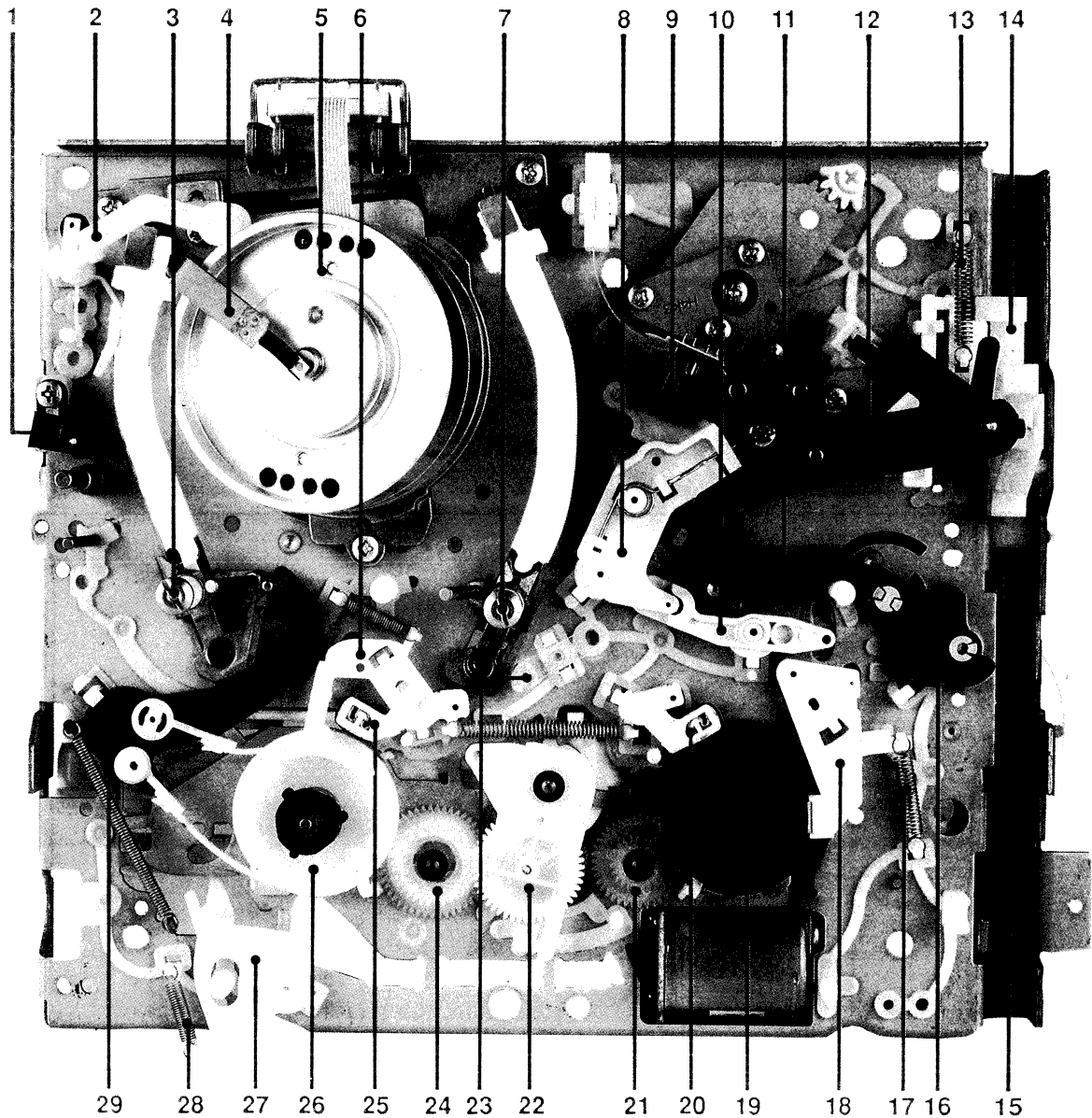


Fig. 4-1

- |                                      |                             |                               |
|--------------------------------------|-----------------------------|-------------------------------|
| 1. Full erase head                   | 11. Arm review ass'y        | 21. Relay gear "T" ass'y      |
| 2. Head cleaner ass'y (DX-5 RC only) | 12. Unit pinch roller ass'y | 22. Idler ass'y               |
| 3. Slide gear loading ass'y "T"      | 13. Spring slide push       | 23. Prism head                |
| 4. Head Brush ass'y                  | 14. Slide pinch             | 24. Gear relay "S" ass'y      |
| 5. Cylinder ass'y                    | 15. Slide rack housing      | 25. Brake main "L" ass'y      |
| 6. Brake sub "L"                     | 16. Lever review            | 26. Reel disk "L" ass'y       |
| 7. Slide gear loading ass'y "S"      | 17. Spring brake sub "R"    | 27. Lever REC switch          |
| 8. Lever pinch comp                  | 18. Sub Brake "R" ass'y     | 28. Spring REC switch         |
| 9. Full head ACE ass'y               | 19. Reel disk "R" ass'y     | 29. Arm tension full assembly |
| 10. Lever pinch cam                  | 20. Main Brake "R" assembly |                               |

## 4-1-2 Deck, Bottom View

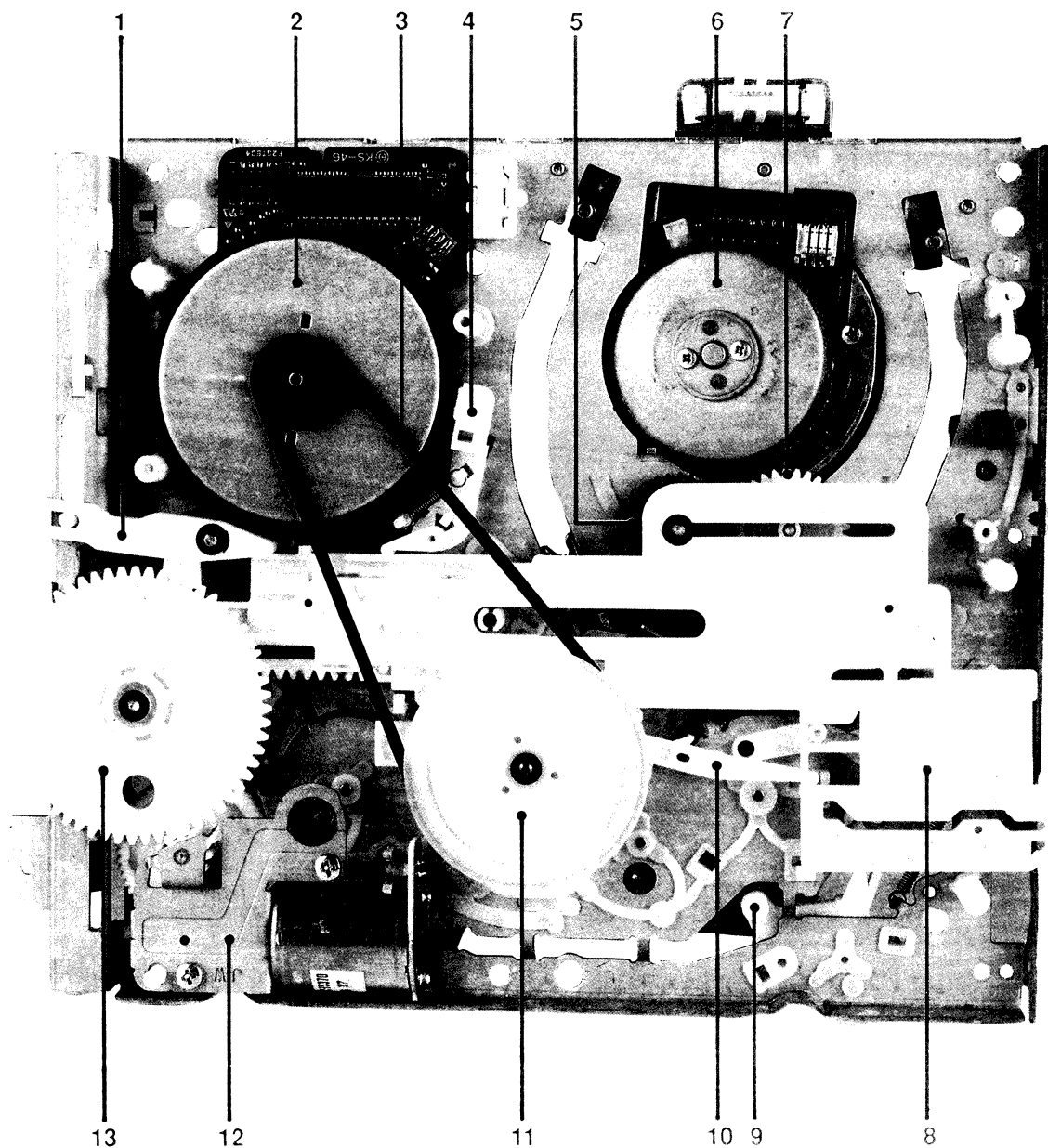


Fig. 4-2

- |                        |                               |                        |
|------------------------|-------------------------------|------------------------|
| 1. Lever slide pinch   | 6. Cylinder Motor             | 10. Lever idler change |
| 2. Notor D.D capstan   | 7. Loading gear "L" ass'y     | 11. Clutch assembly    |
| 3. Capstan Belt        | 8. Slide main (white for X-5) | 12. Unit loading       |
| 4. Capstan Brake ass'y | 8. Slide main (black for X-5) | 13. Gear master        |
| 5. Loading gear "R"    | 9. Lever REC switch           |                        |

### 4-1-3 Housing View

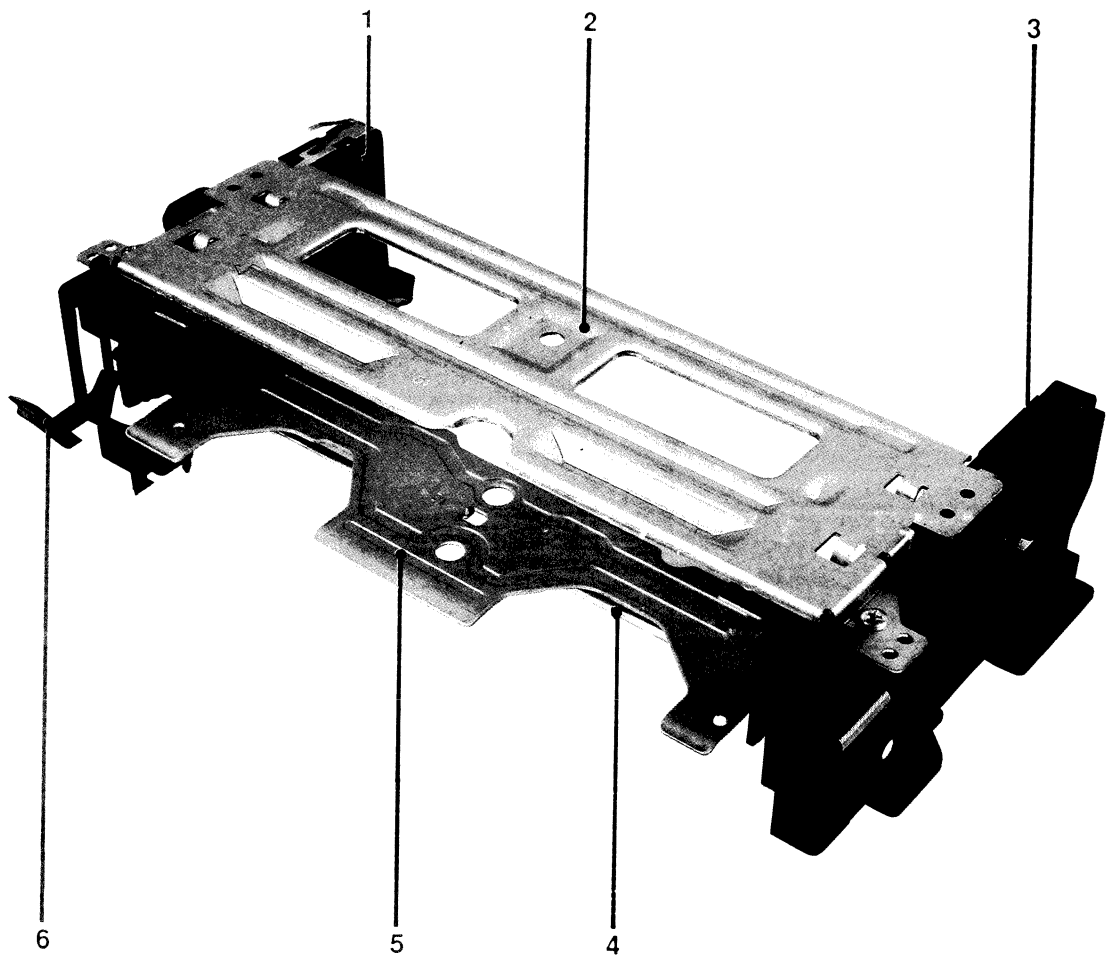


Fig. 4-3

1. Chassis side "L" assembly
2. Upper chassis
3. Chassis side "R" assembly
4. Shaft arm assembly
5. Holder cassette assembly
6. Lever door assembly

## 4-2 Housing Assembly

### 4-2-1 Removal From Main Base

1. Remove 3 screws ①.
2. Lift the housing assembly in the direction of arrow 'B' while pushing the tab ② in the direction of arrow 'A'. Refer to detail drawing.

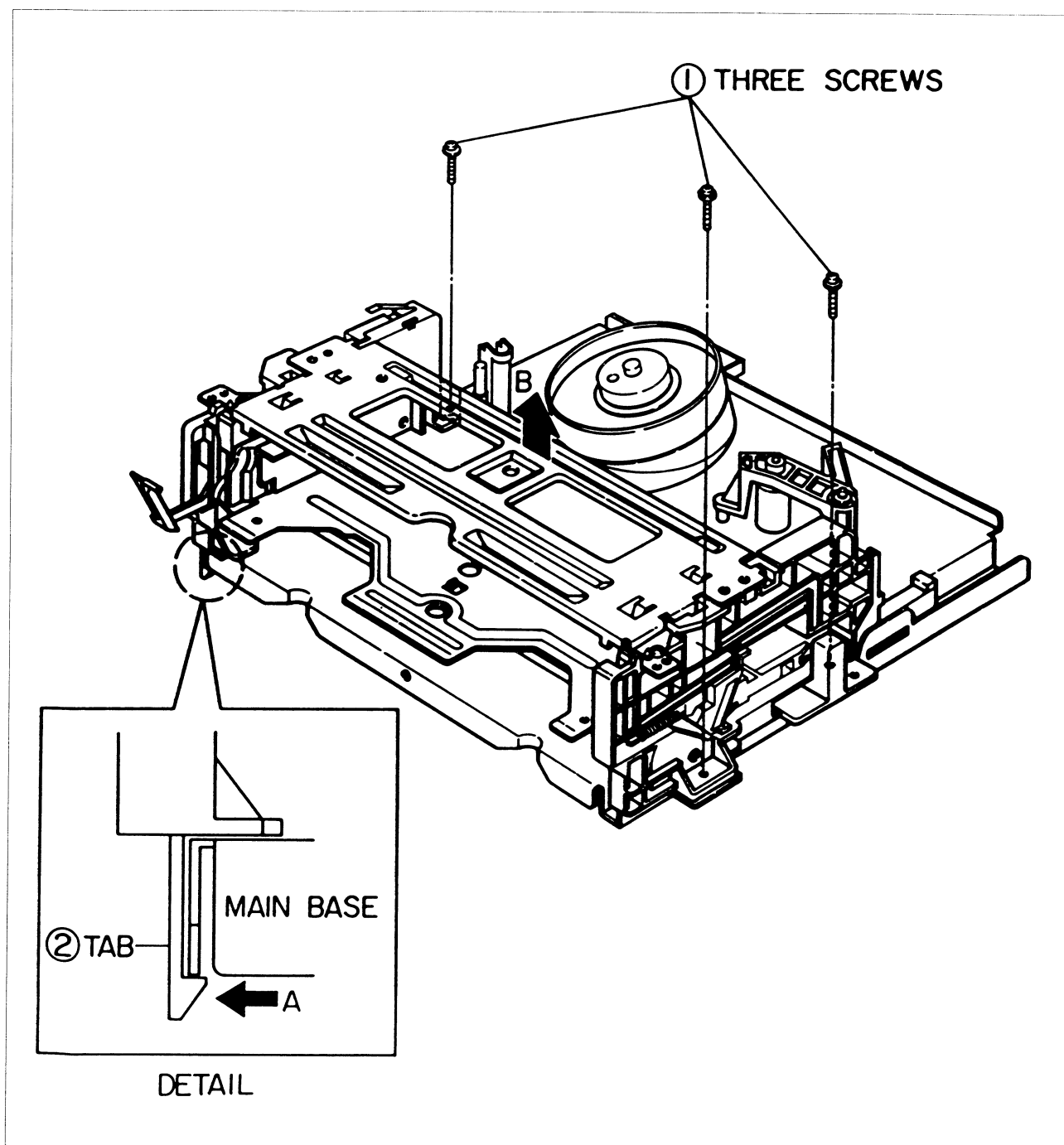


Fig. 4-4

## 4-2-2 Disassembly

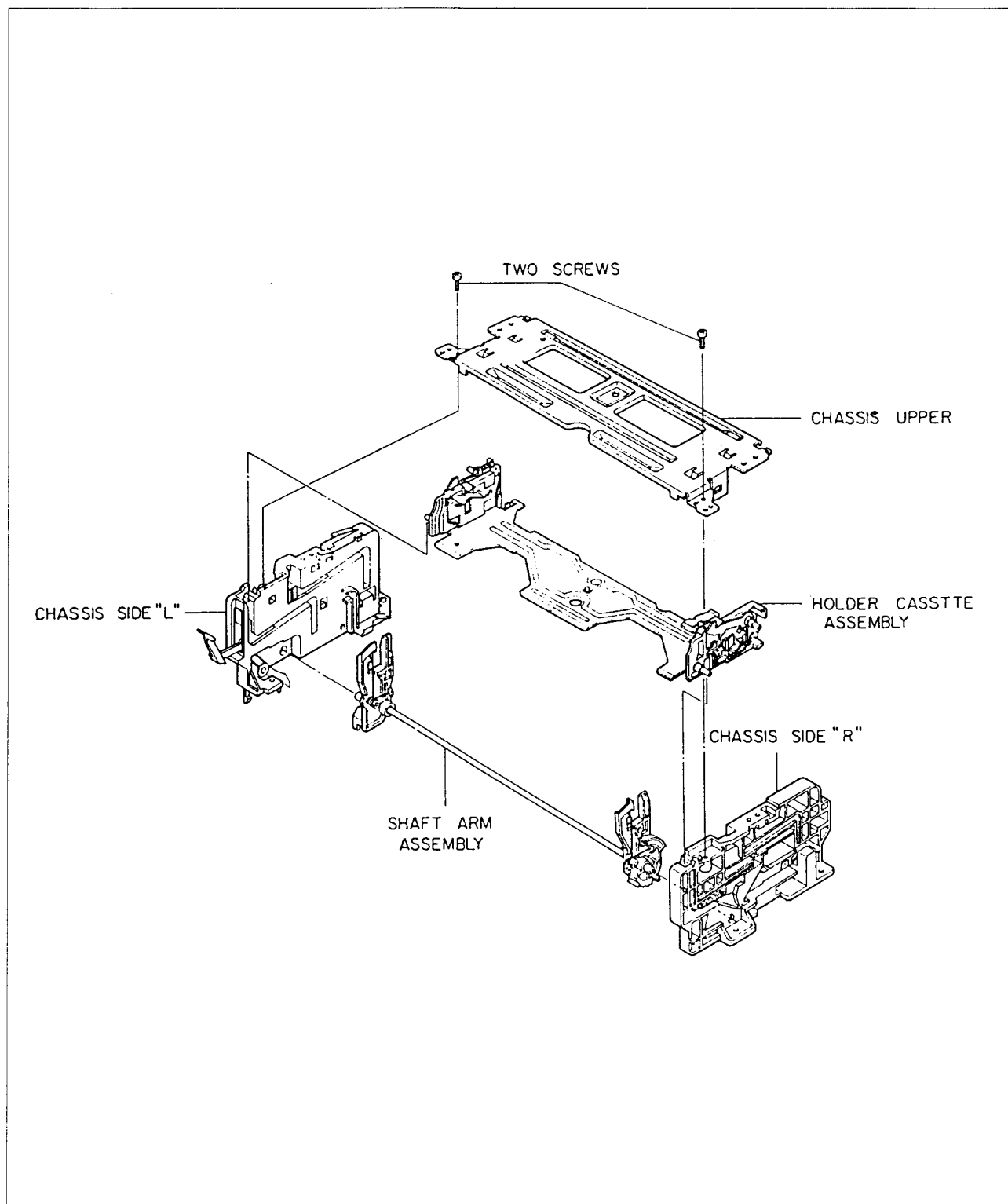


Fig. 4-5

### 4-2-3 Upper Chassis Removal

1. Remove 2 screws ①.
2. Lift the upper chassis ④ in the direction of arrow 'C' while pushing the 2 tabs ②, ③ in the direction of arrows 'A', 'B'. Refer to detail drawings 'A' and 'B'.

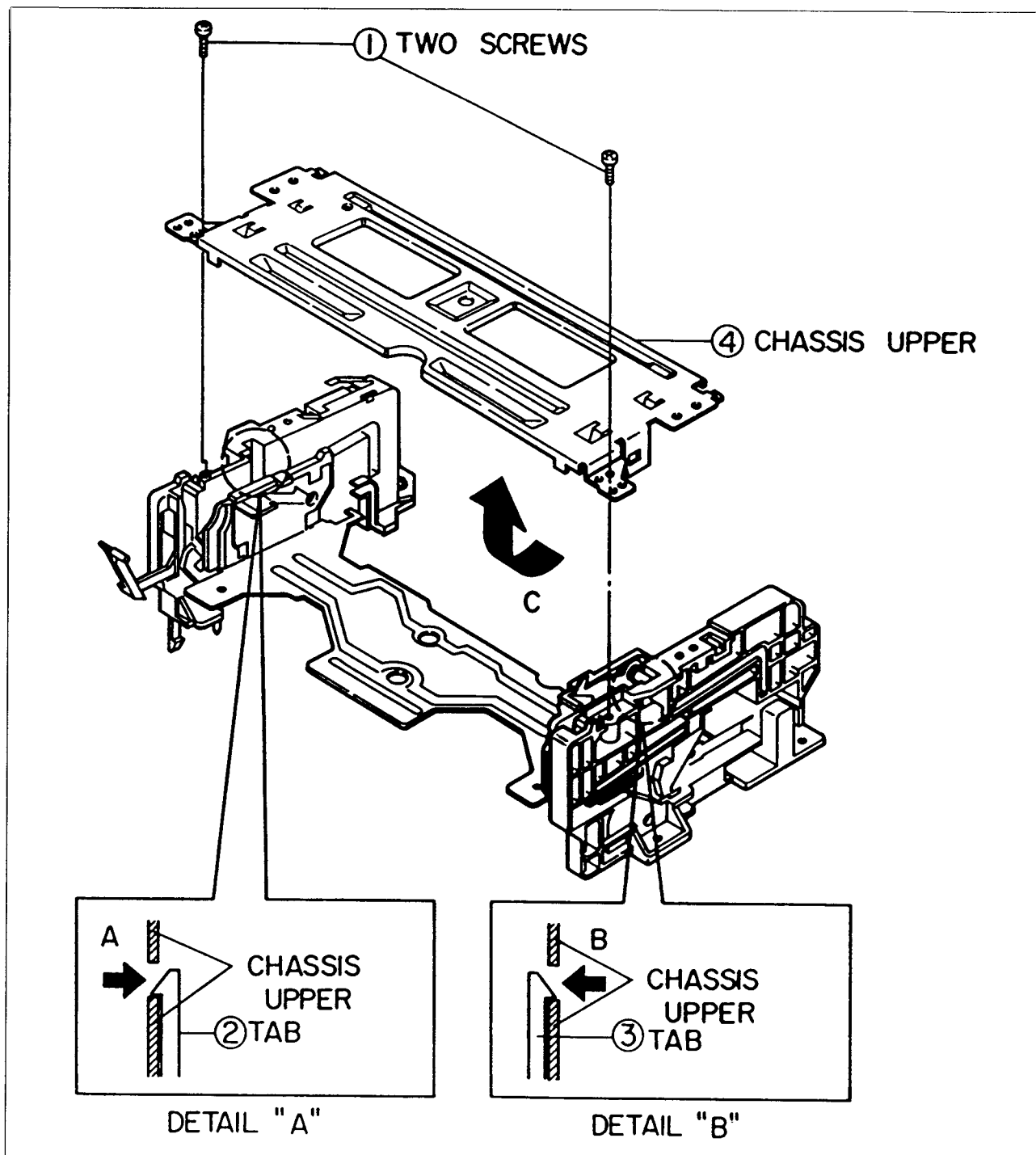


Fig. 4-6

#### 4-2-4 Holder Cassette Assembly and Chassis Side L/R Removal

1. Lift the holder cassette ① in the direction of arrow 'A'. Refer to Fig. A.
2. Remove the chassis side 'L' ② and 'R' ③ from shaft arm assembly ④ in the direction of arrows 'B' and 'C'. Refer to Fig. B.

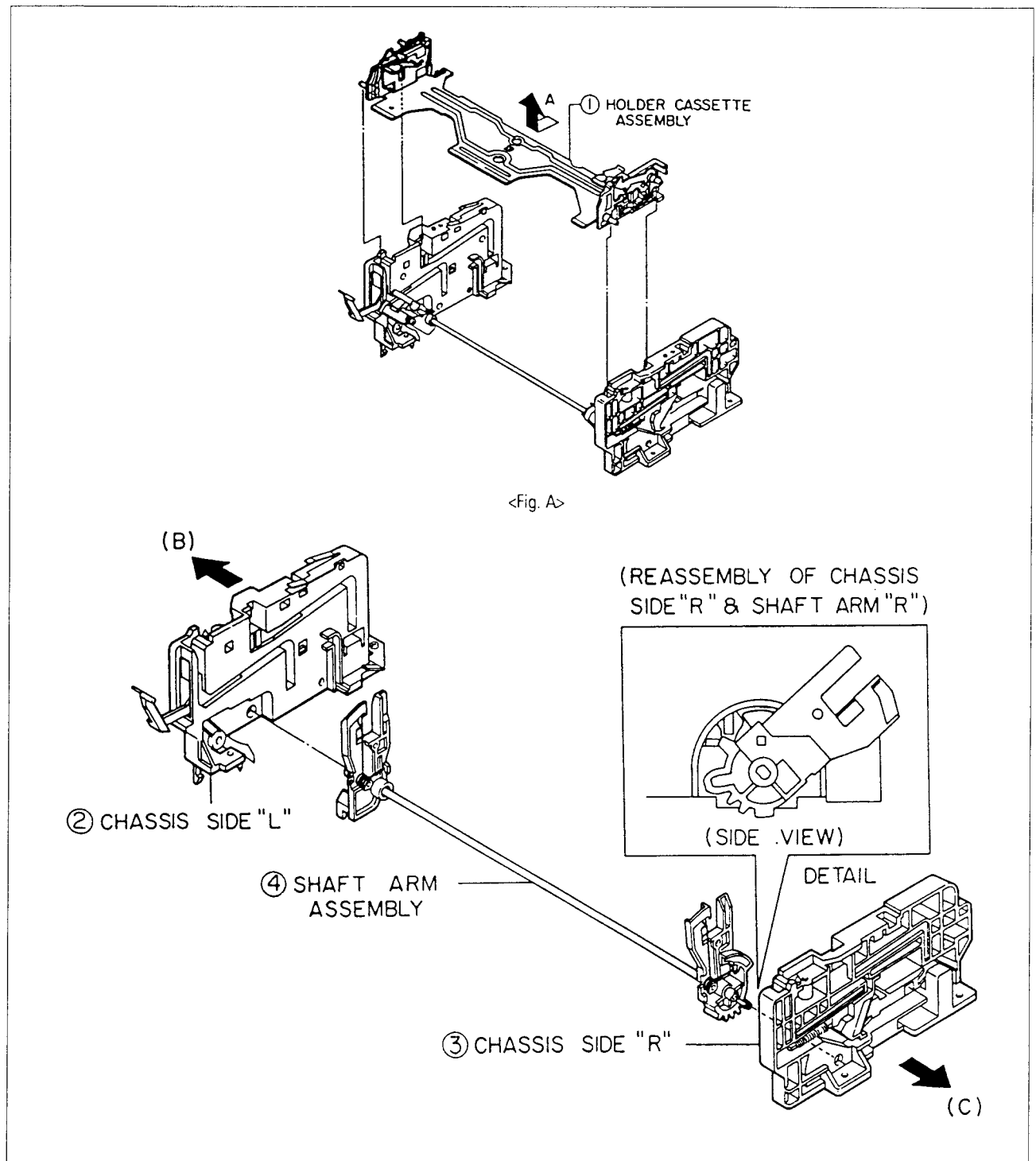


Fig. 4-7

#### 4-2-5 Chassis Side "R" Parts Locations

1. Note: When the deck is operated with the holder cassette assembly removed, the shaft arm 'R' and the slide damper are not returned to their original position.

If this happens by accident, push the slide damper of chassis side 'R' in the direction of arrow 'D', and return the slide damper in the reverse direction of arrow 'D' when the shaft arm assembly is in eject mode.

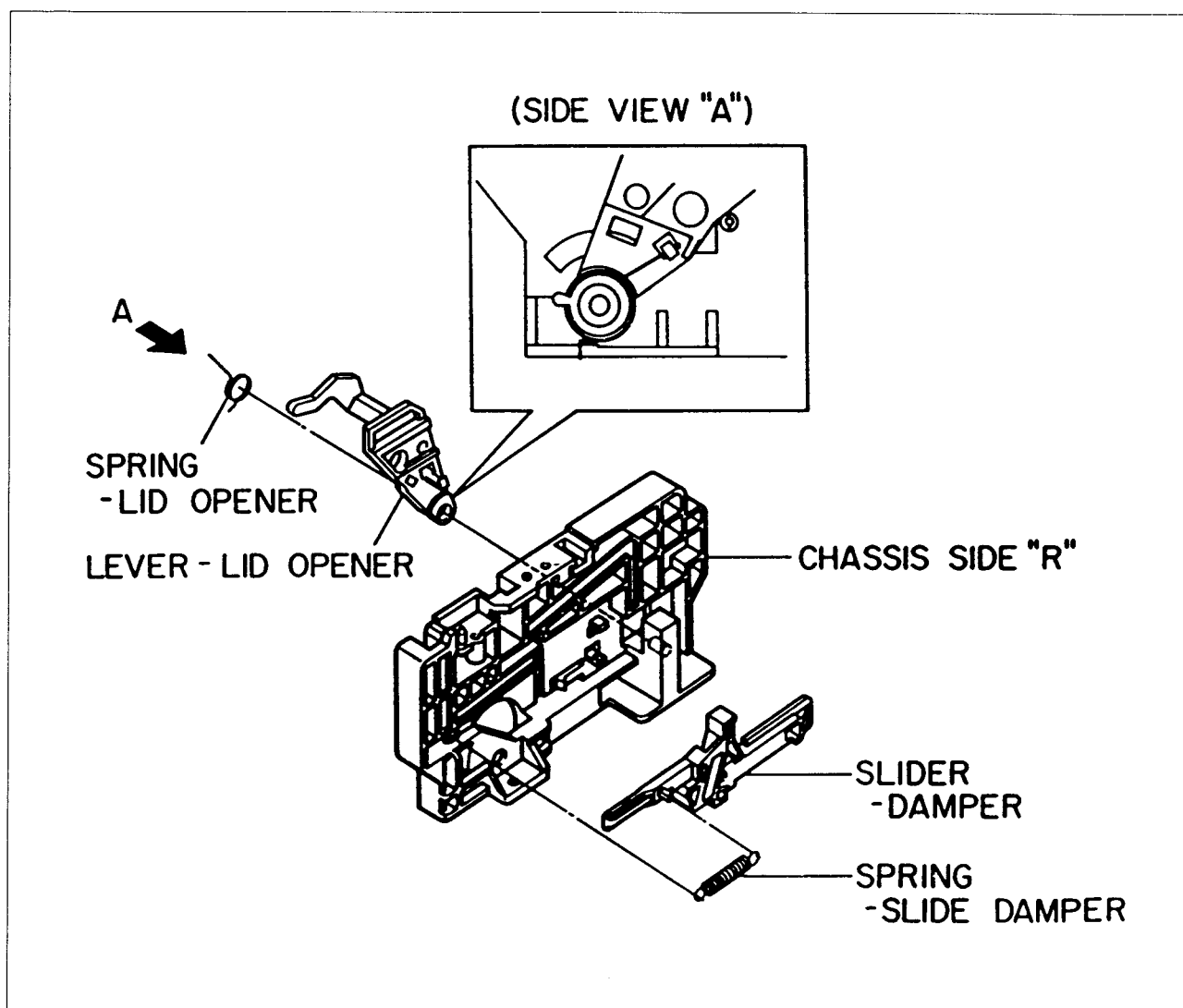


Fig. 4-8



#### 4-2-6 Slide Damper Removal

1. Remove the spring slide damper ①.
2. Push the stopper ③ of the chassis side "R" ④. Move the slide damper ② in the direction of arrow.
3. Align the slide damper ② with the chassis side tab (as shown in the detail drawing).

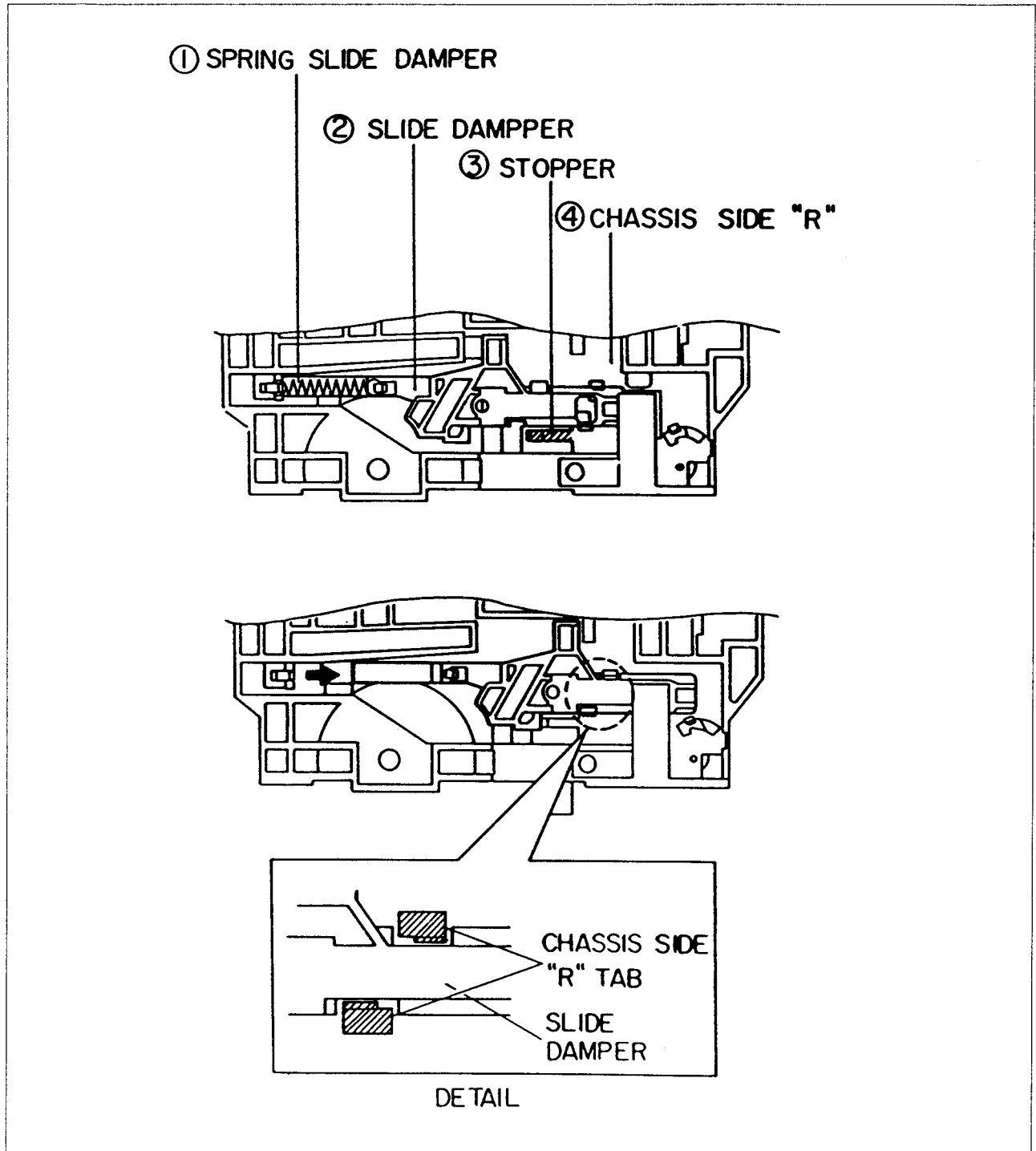


Fig. 4-9

### 4-3 Cylinder Assembly

#### 4-3-1 Exploded View of Cylinder Assembly

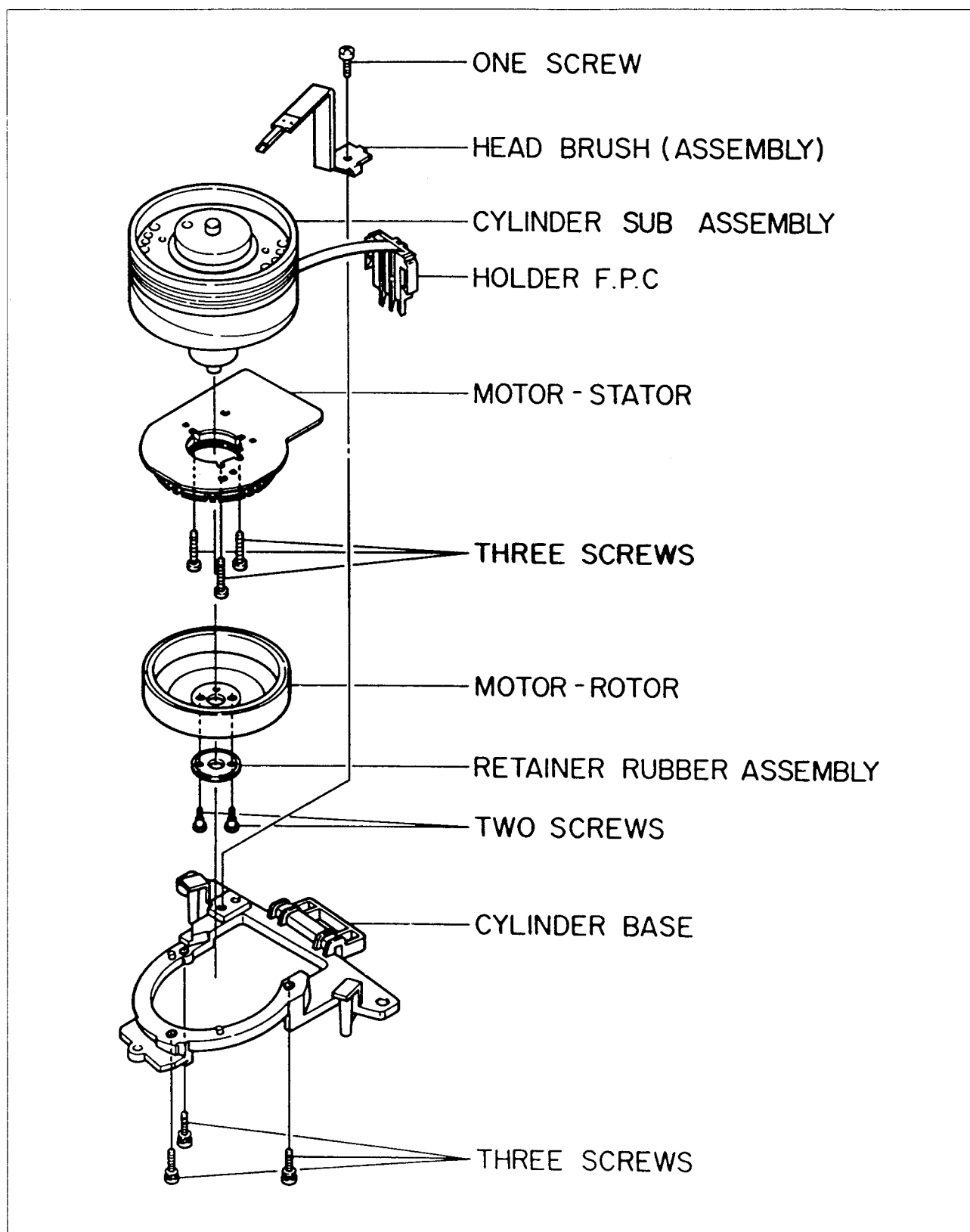


Fig. 4-10

### 4-3-2 Stopper Tape Removal

#### 4-3-2 (a) Stopper Tape Removal (For DX5-R only)

1. Release 1 tab ① in the direction of arrow 'A'. Refer to the detail drawing.
2. Lift the stopper tape ② in the direction of arrow 'B'.

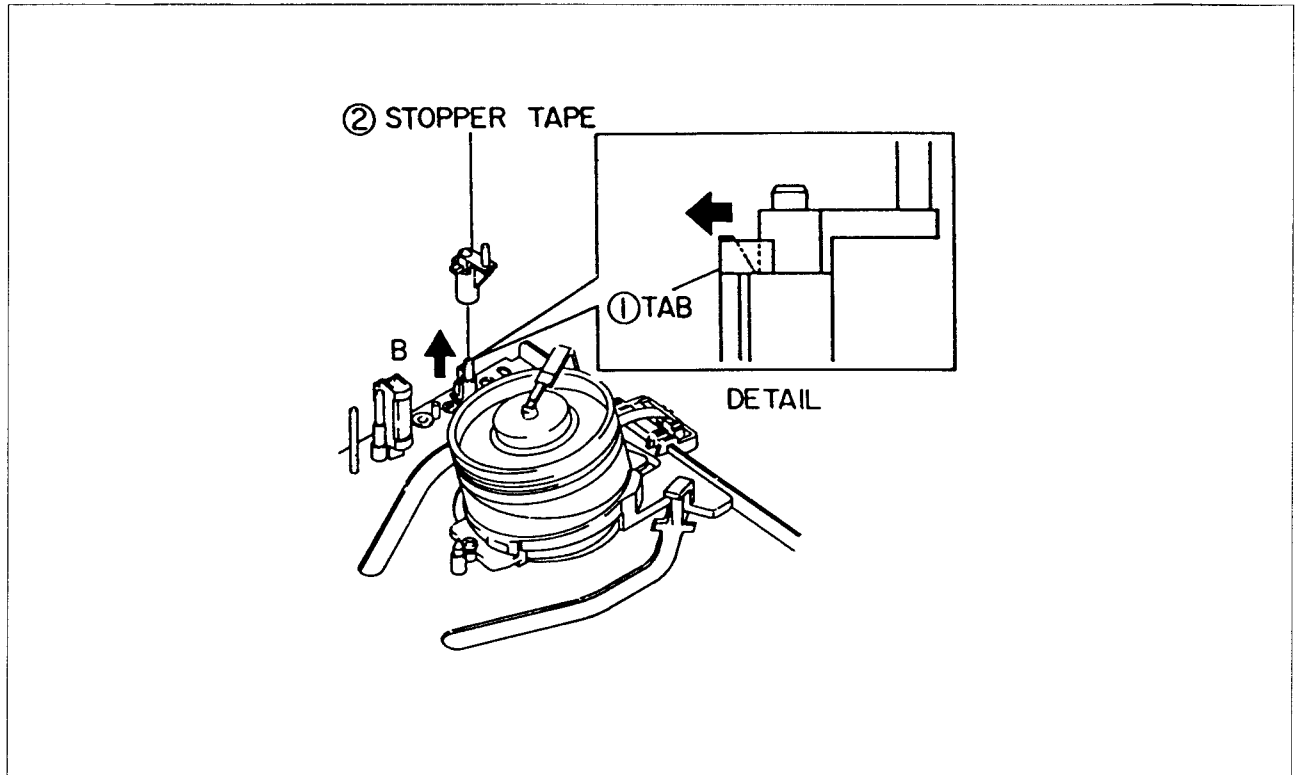


Fig. 4-11

### 4-3-3 Cylinder Assembly Removal From Main Base

1. Remove 3 screws ① holding the main base and the cylinder assembly.
2. Lift the cylinder assembly ② in the direction of arrow.
3. Note: Do not touch the video heads during removal or installation.

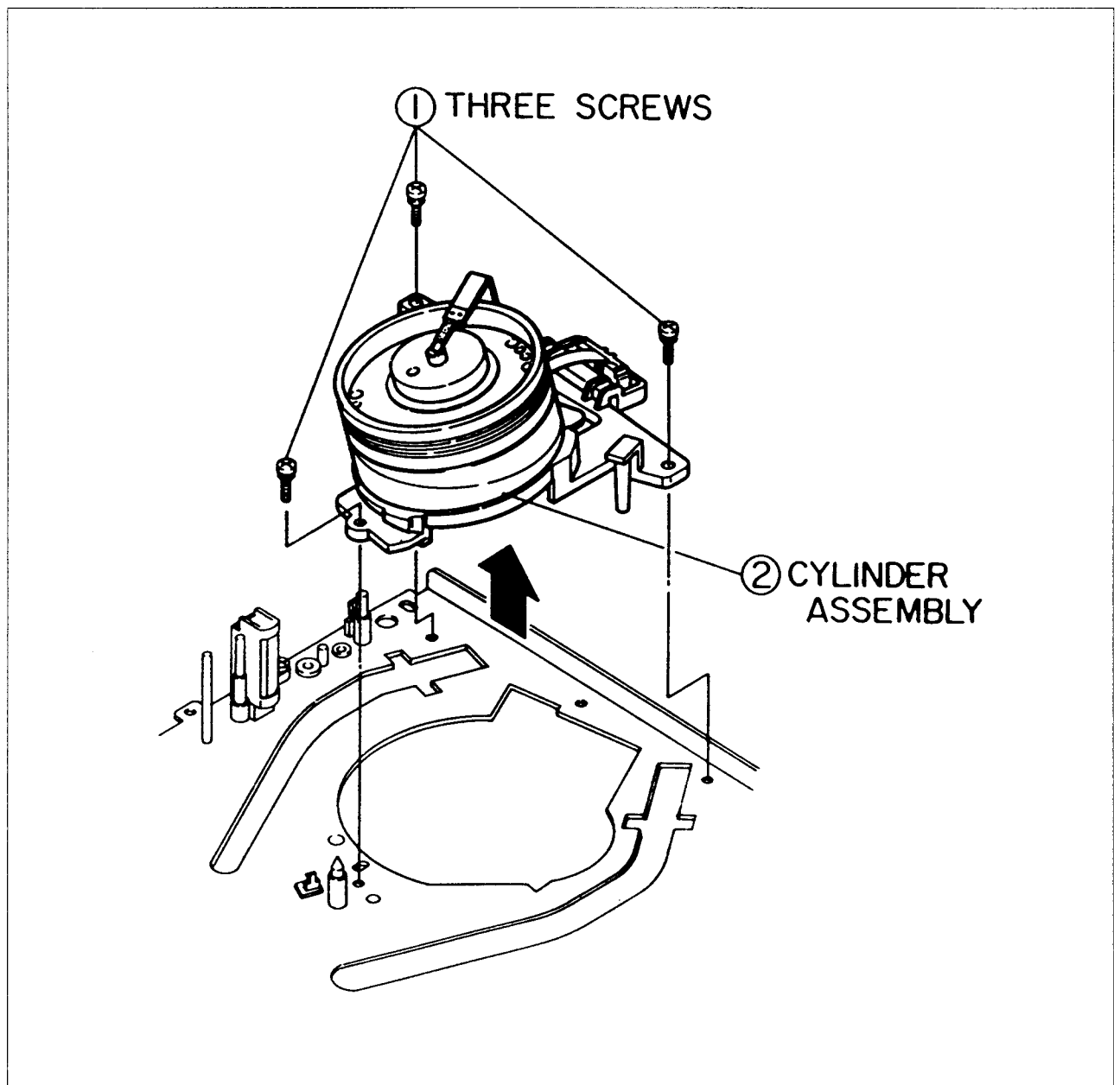


Fig. 4-12

#### 4-3-4 Removal: Head Brush and Holder FPC

1. Remove 1 screw ① and then lift the head brush ②.
2. Release the holder FPC tab holding the cylinder base ④ in the direction of arrow. Refer to detail drawing.
3. Disconnect the holder FPC ③ from the cylinder base ④.
4. Note: When disconnecting the holder FPC ③ from the cylinder base ④, take care not to disconnect the FPC cable from the holder FPC. (The FPC cable is very short.)

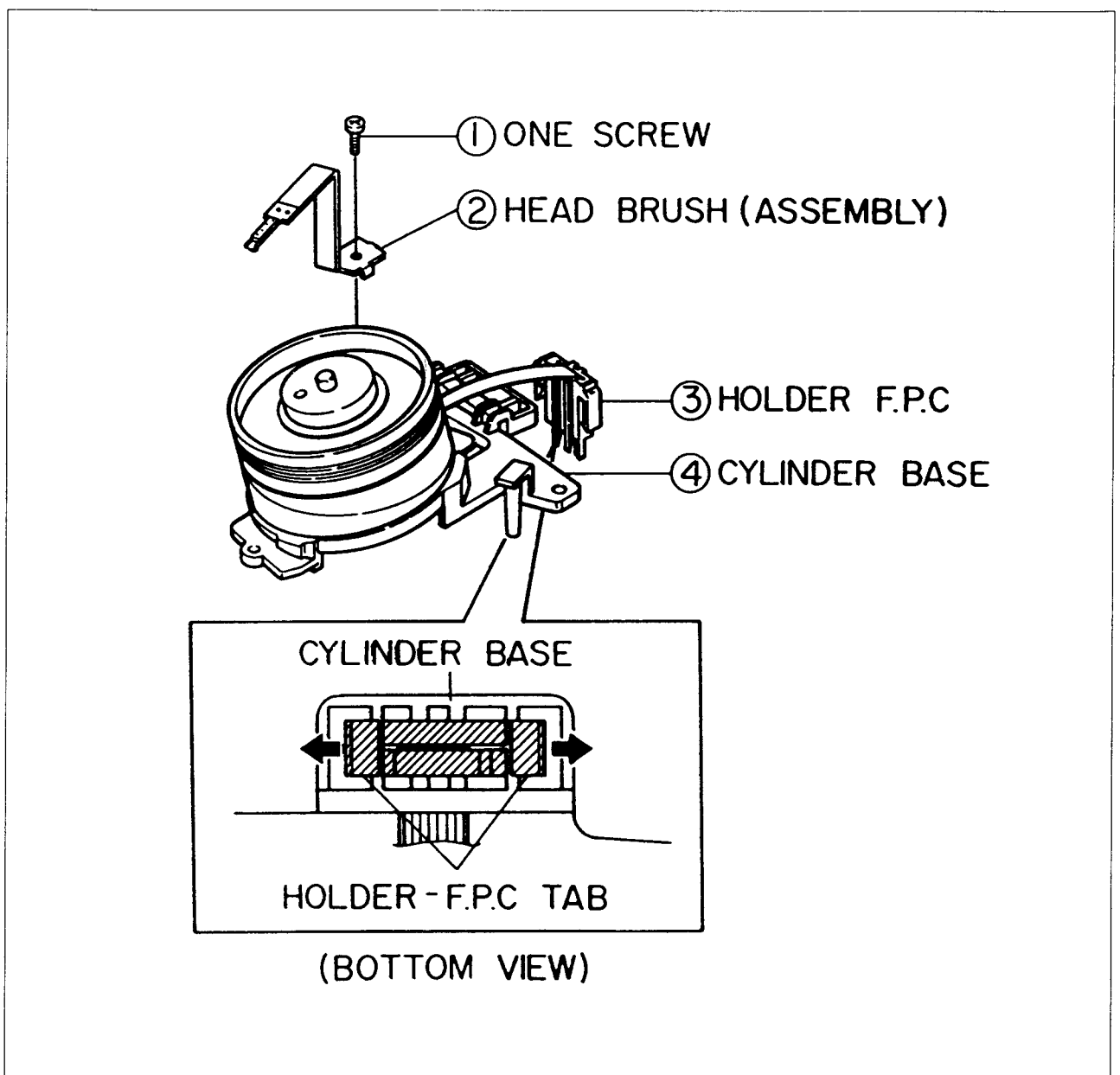


Fig. 4-13

#### 4-3-5 Cylinder Assembly Removal From Cylinder Base

1. Remove 3 screws ① from the cylinder base ②.
2. Lift the cylinder assembly ③ from the cylinder base ② in the direction of arrow.

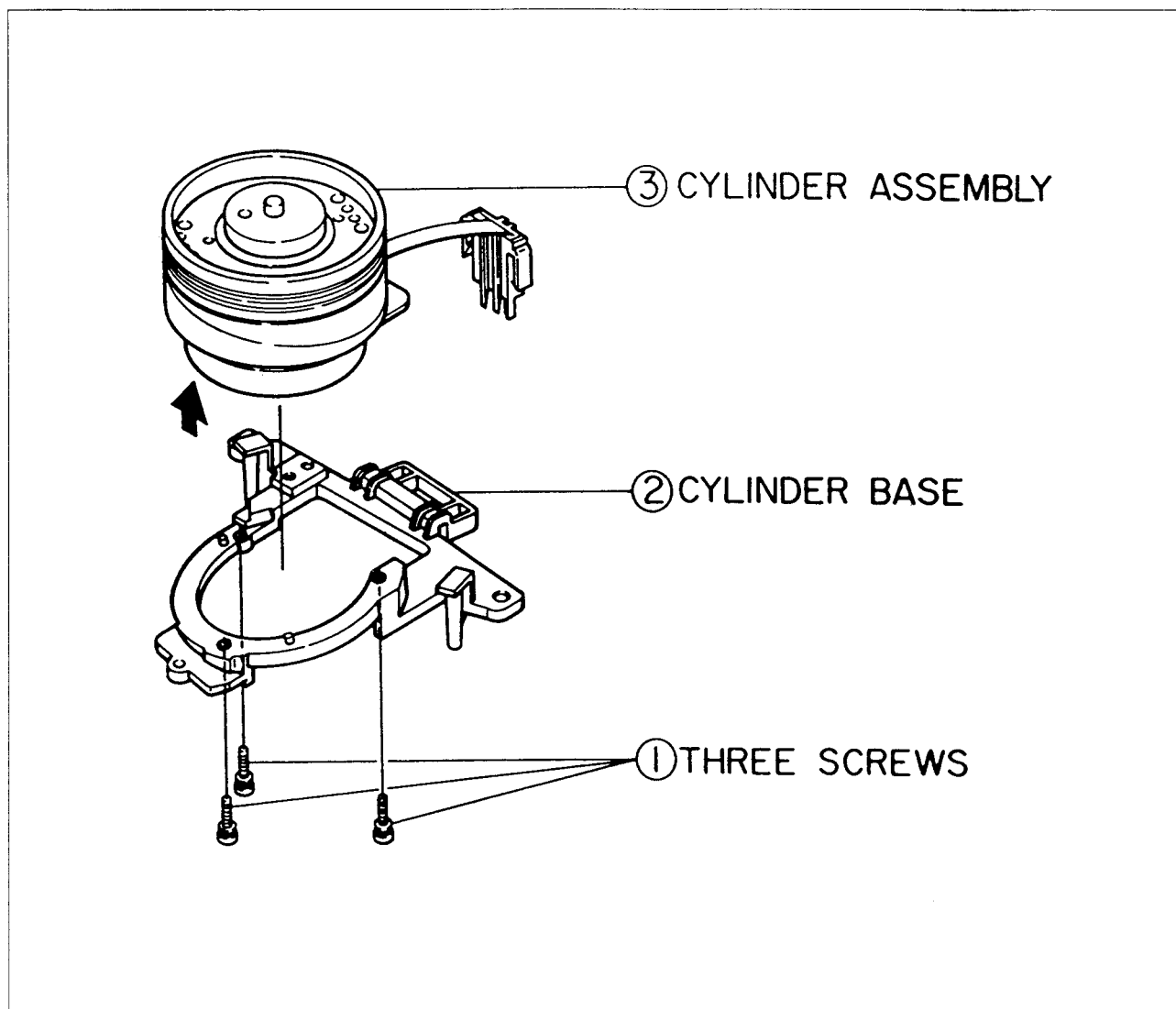


Fig. 4-14

#### 4-3-6 Motor Rotor Removal

1. Remove 2 screws ①.
2. Lift the retainer rubber assembly ② and the motor rotor ③.

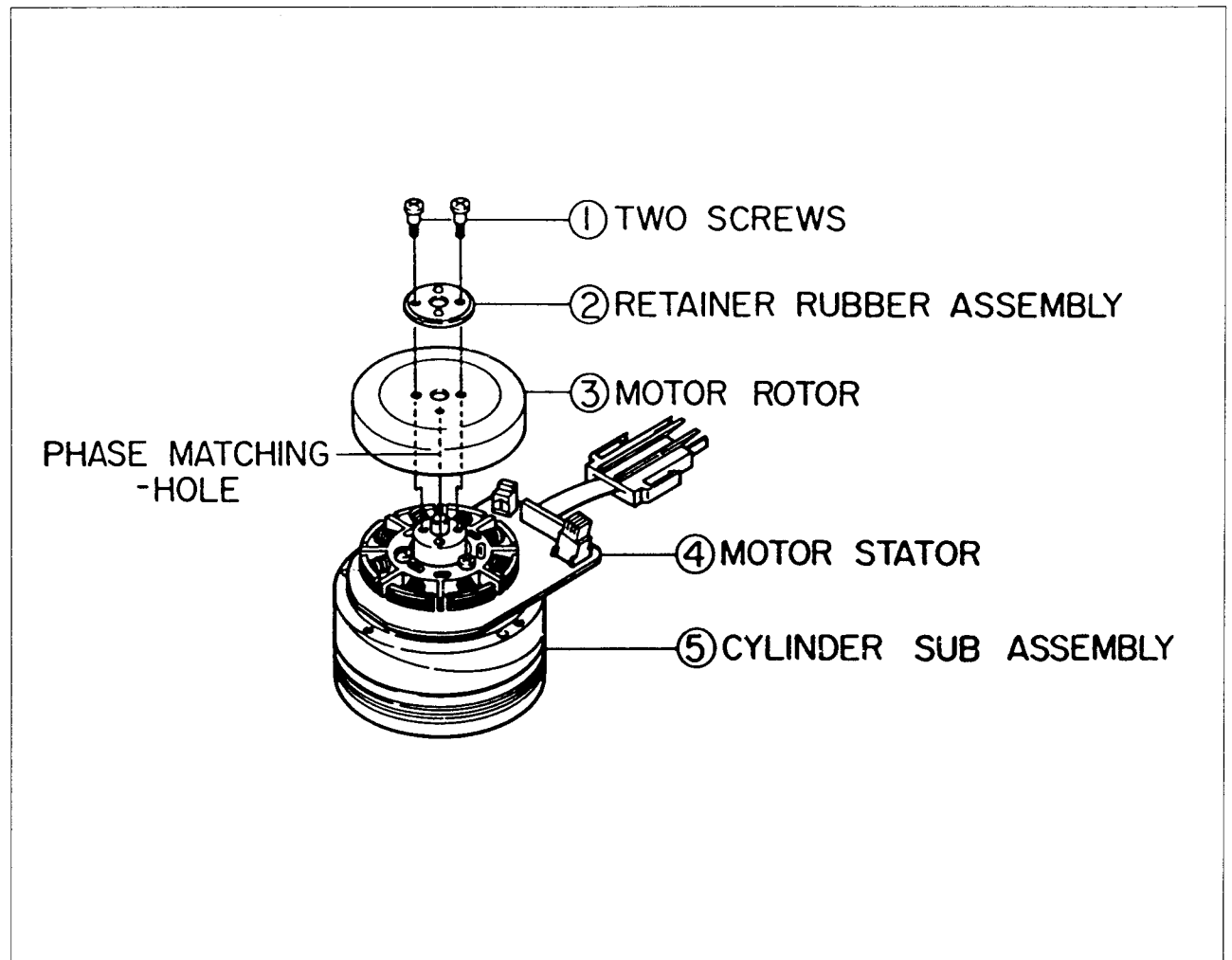


Fig. 4-15

#### 4-3-7 Motor Rotor and Cylinder Subassembly

1. Make sure that phase matching holes of the motor rotor and the cylinder subassembly are aligned correctly.
2. Reinstall the retainer rubber assembly ② and secure it with 2 screws.

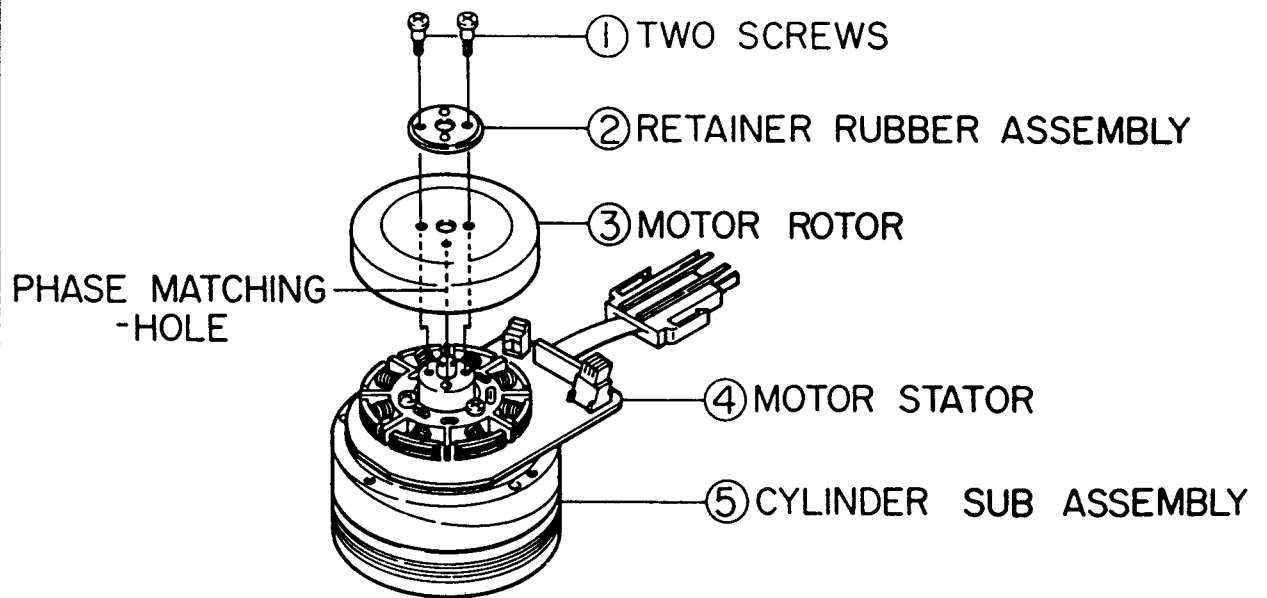


Fig. 4-16



#### 4-3-8 Motor Stator Removal

1. Remove 3 screws ①.
2. Remove the motor stator ② from the cylinder sub assembly ③.

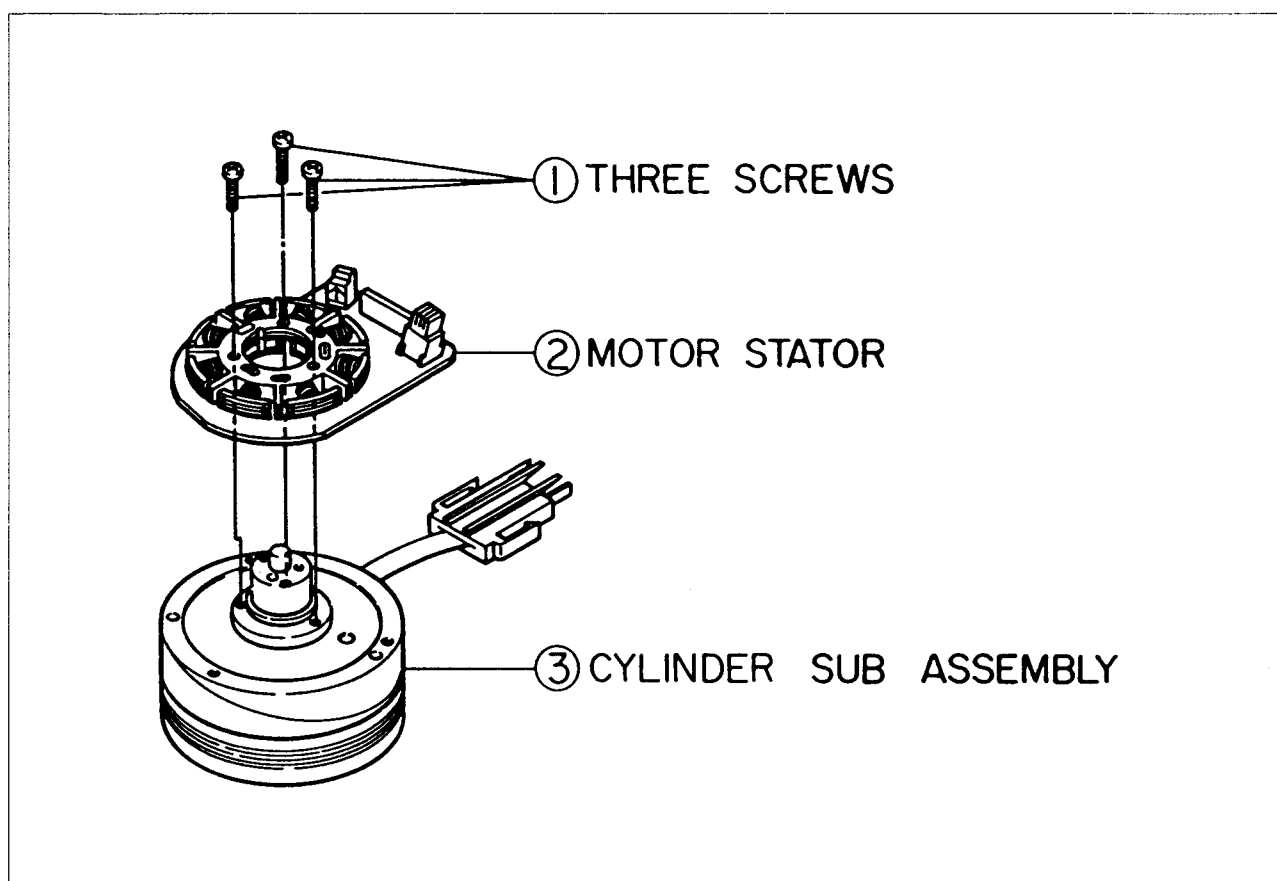


Fig. 4-17

#### 4-3-9 Motor Stator and Cylinder Subassembly

1. Reinstall the motor stator ① toward the FPC cable of cylinder subassembly ②.
2. Secure with 3 screws.

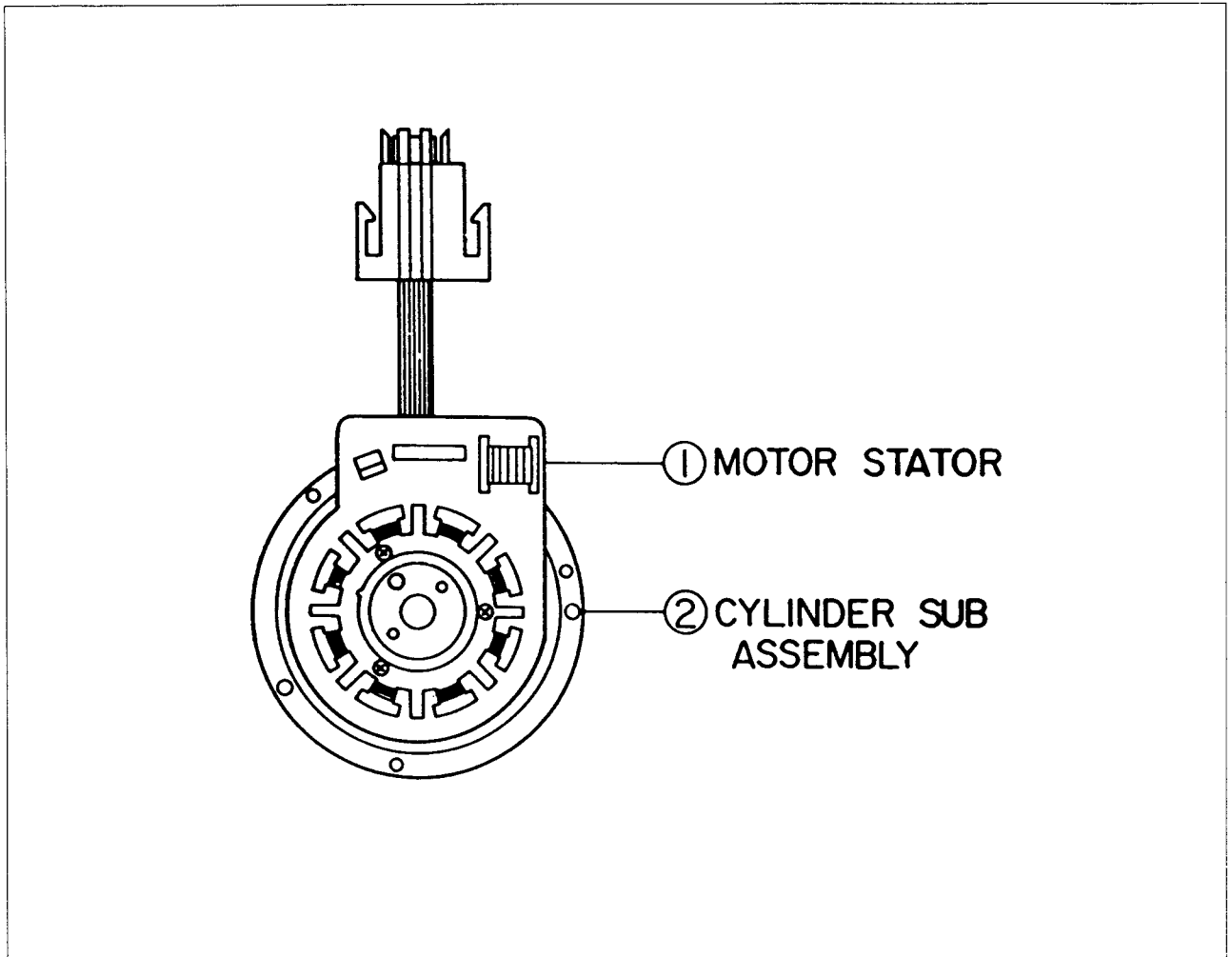


Fig. 4-18

## 4-4 Main Deck Removal and Reassembly

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### 4-4-1 Slide Rack Housing Removal

1. Lift the slide rack housing in the direction of arrow.

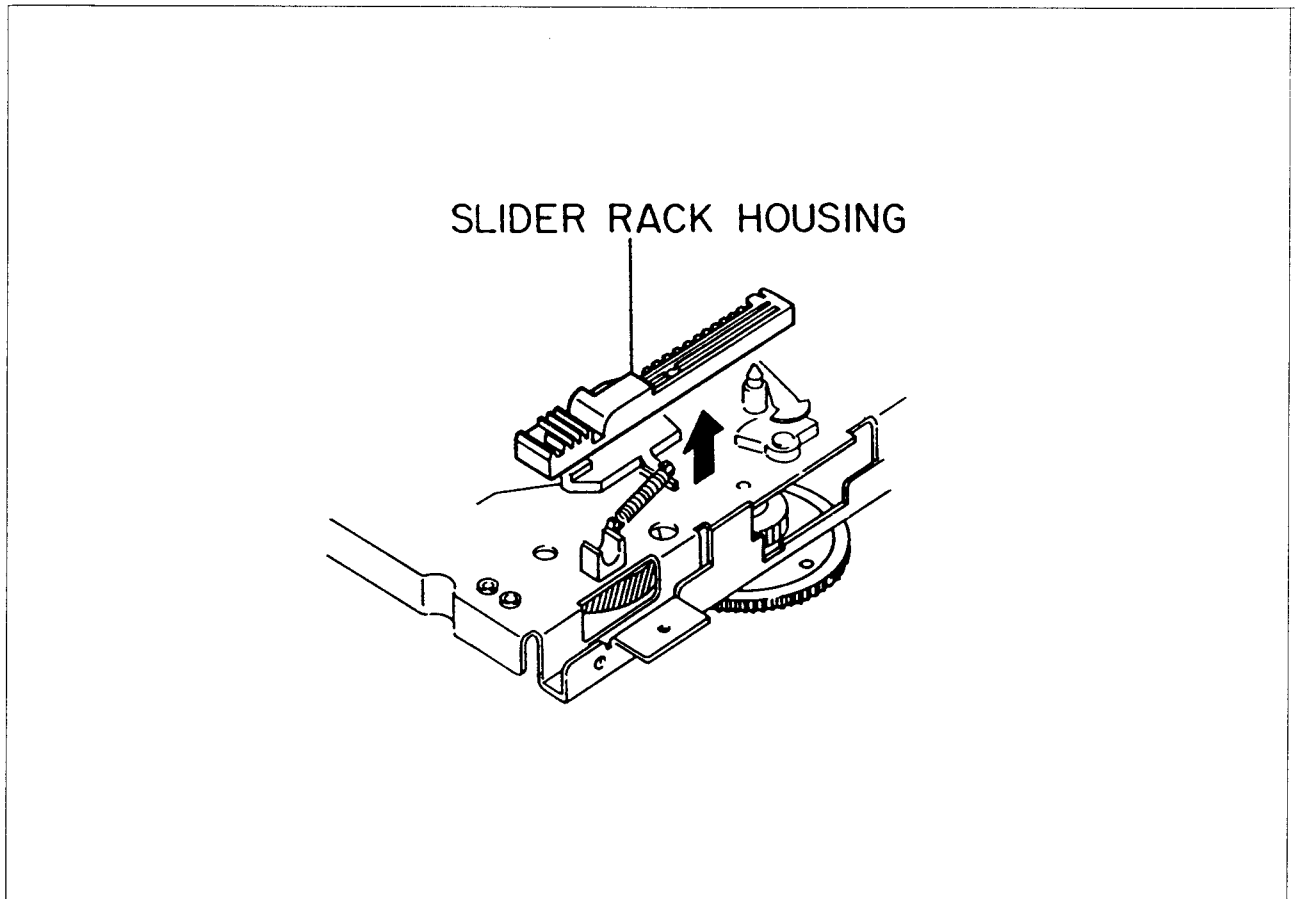


Fig. 4-19

#### 4-4-2 Assembly of Slide Rack Housing and Gear Master

1. Confirm that the hole of gear master ① and the hole 'A' of the main base are aligned correctly (Eject mode).
2. Align the slot #1 of gear master ① with the tooth #1 of slide rack housing. Refer to timing point.

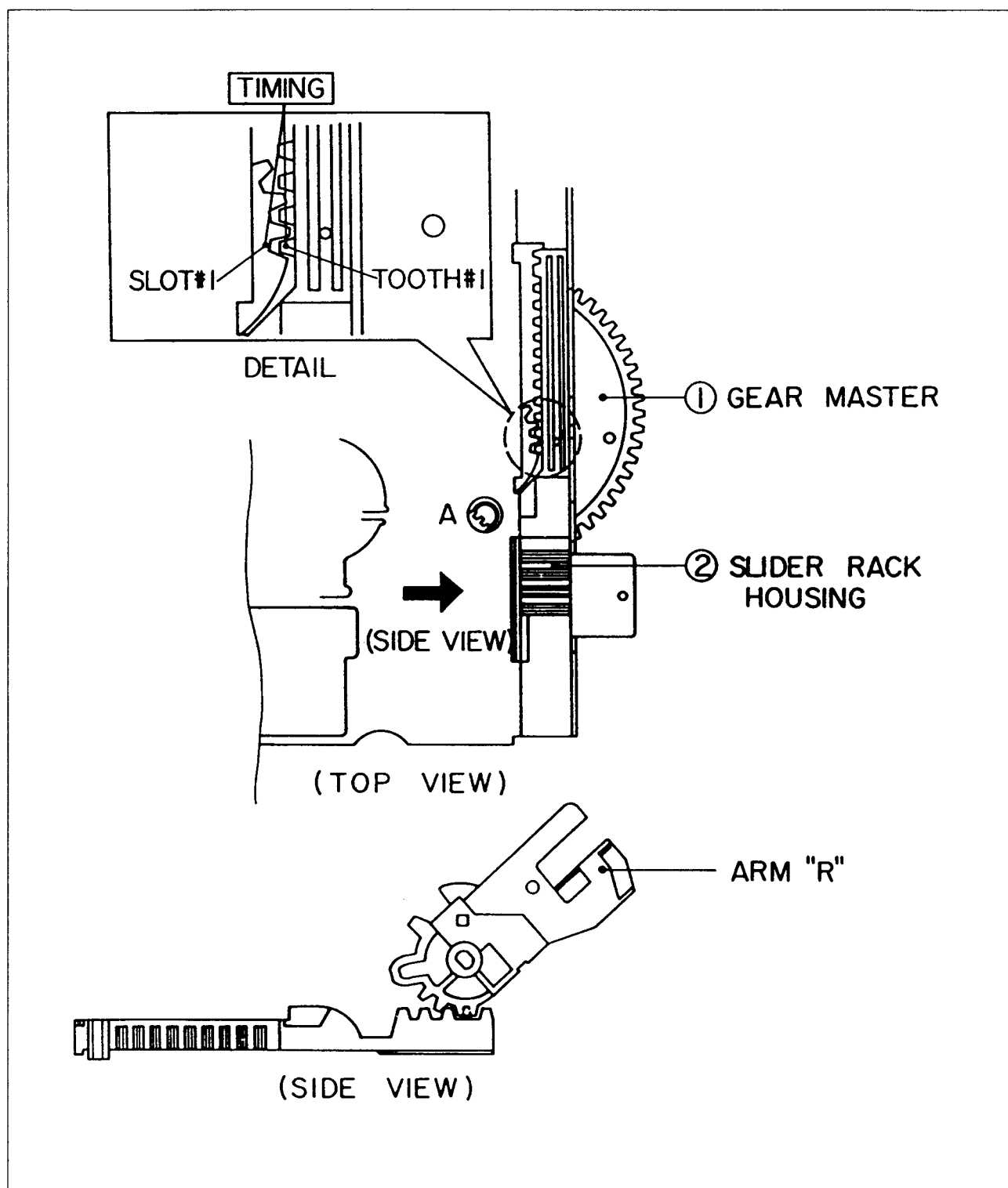


Fig. 4-20

#### 4-4-3 Brake Sub "L" Removal

1. Remove the spring brake sub 'L' ①.
2. Release the tab ② in the direction of arrow.  
Refer to detail drawing.
3. Lift the brake sub 'L' ③.

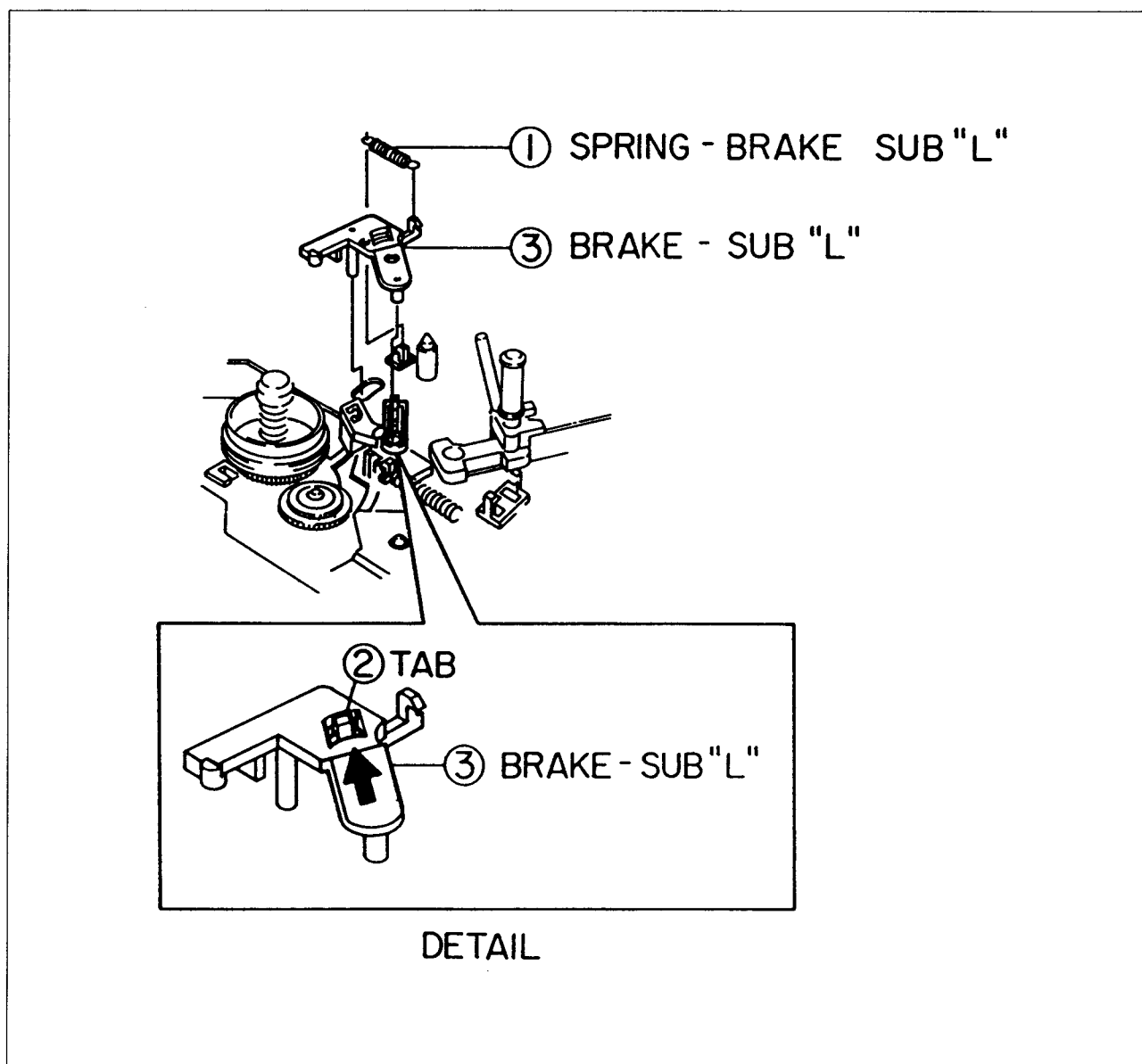


Fig. 4-21

#### 4-4-4 Arm Tension Full Assembly Removal

1. Remove the spring tension ①.
2. Release the tab ② in the direction of arrow. Refer to detail drawing.
3. Lift the arm tension full assembly ③.

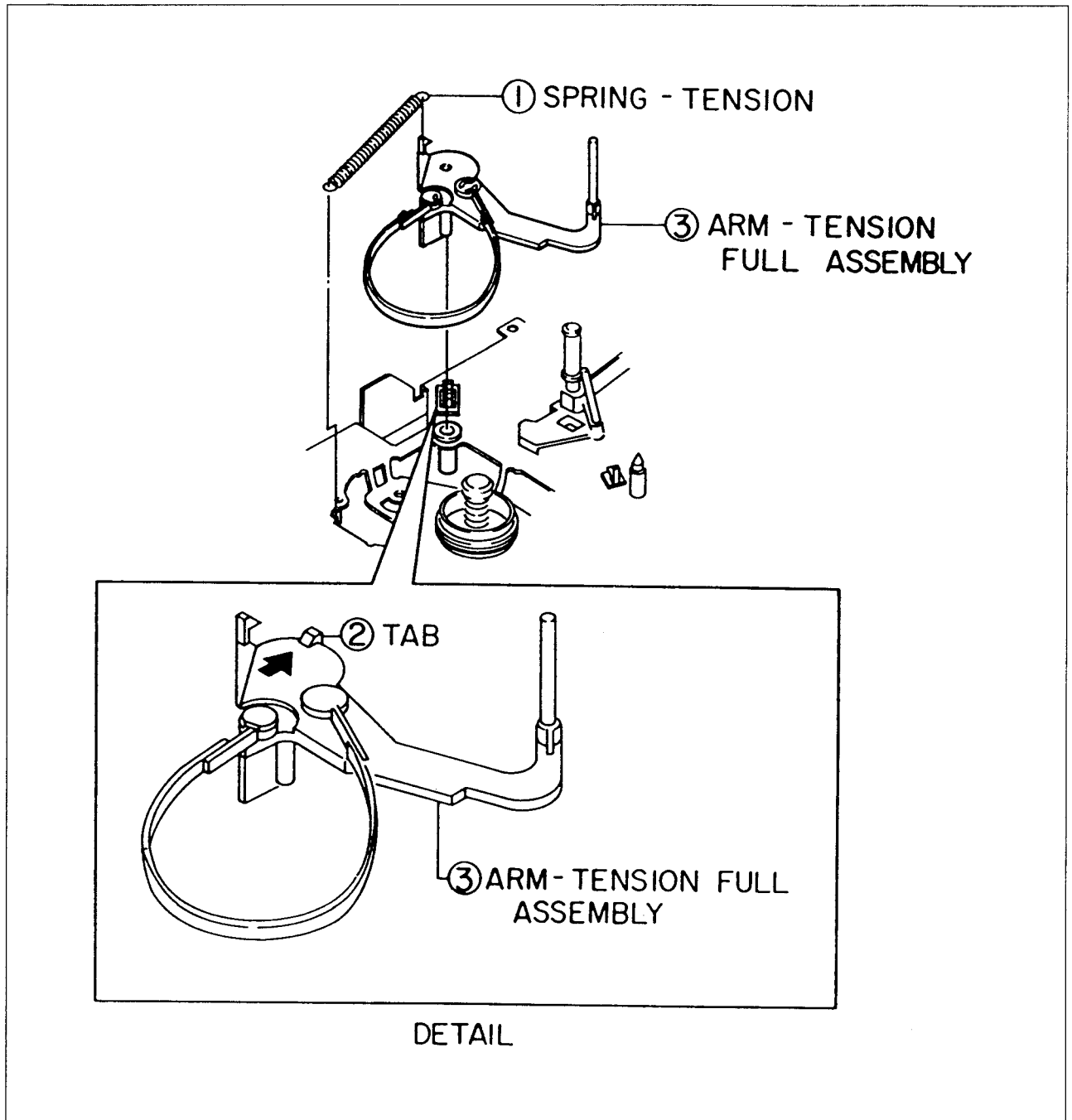


Fig. 4-22

#### 4-4-5 Reel Disk "L" Assembly and Gear Relay "S" Assembly Removal

1. Release the tab ① in the direction of the arrow.  
Refer to the detail drawing.
2. Lift the reel disk 'L' assembly ②.
3. Remove the washer plain ③.
4. Remove the washer slit ④.
5. Lift the gear relay 'S' assembly ⑤.
6. Note: When reinstalling, be sure to install the reel disk 'L' assembly ② after installing the washer, plain ③.

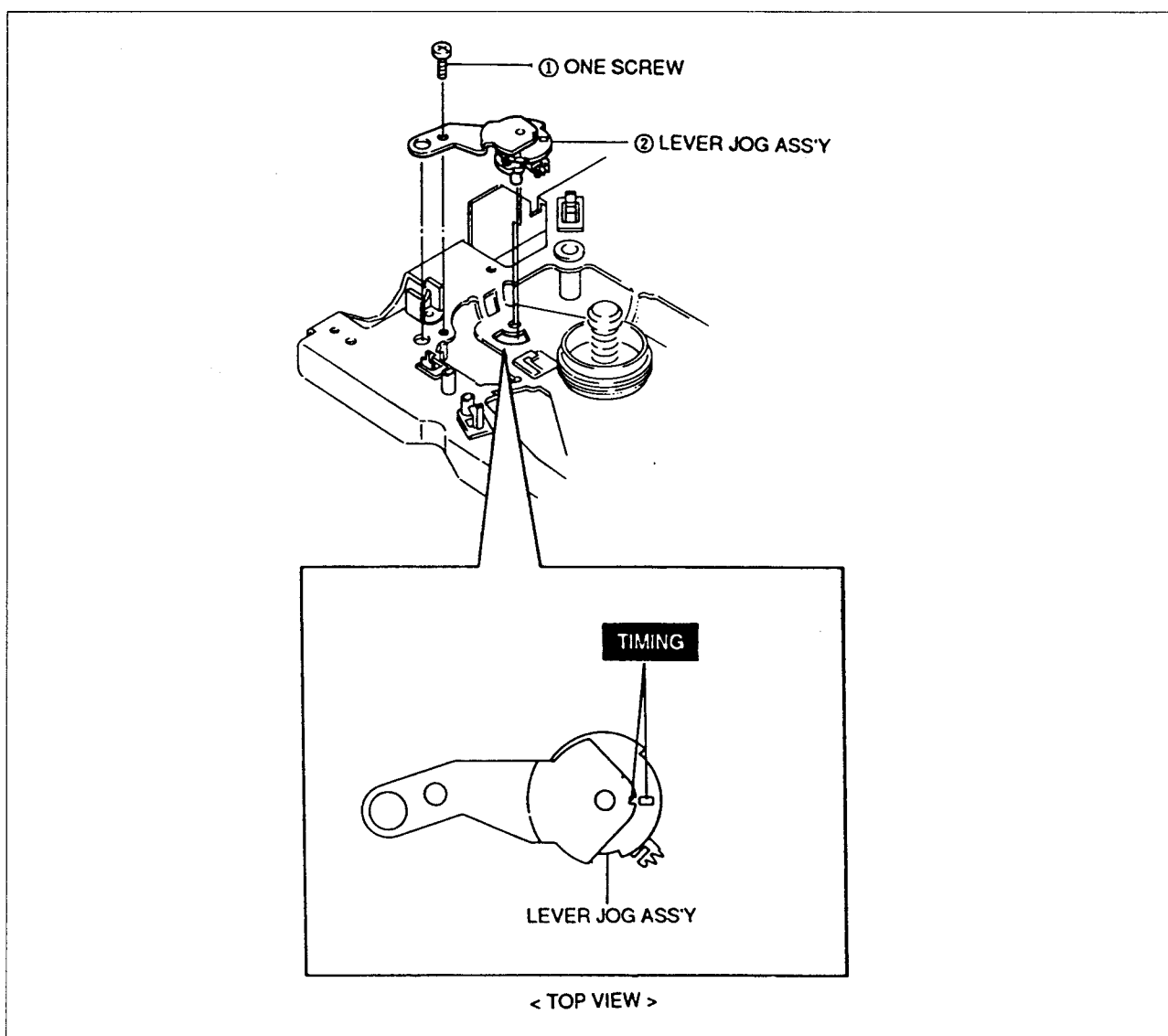


Fig. 4-23

#### 4-4-6 Brake Sub "R" Assembly Removal

1. Remove the spring brake sub 'R' ①.
2. Release the tab ② in the direction of arrow. Refer to detail drawing.
3. Lift the brake sub 'R' assembly ③.

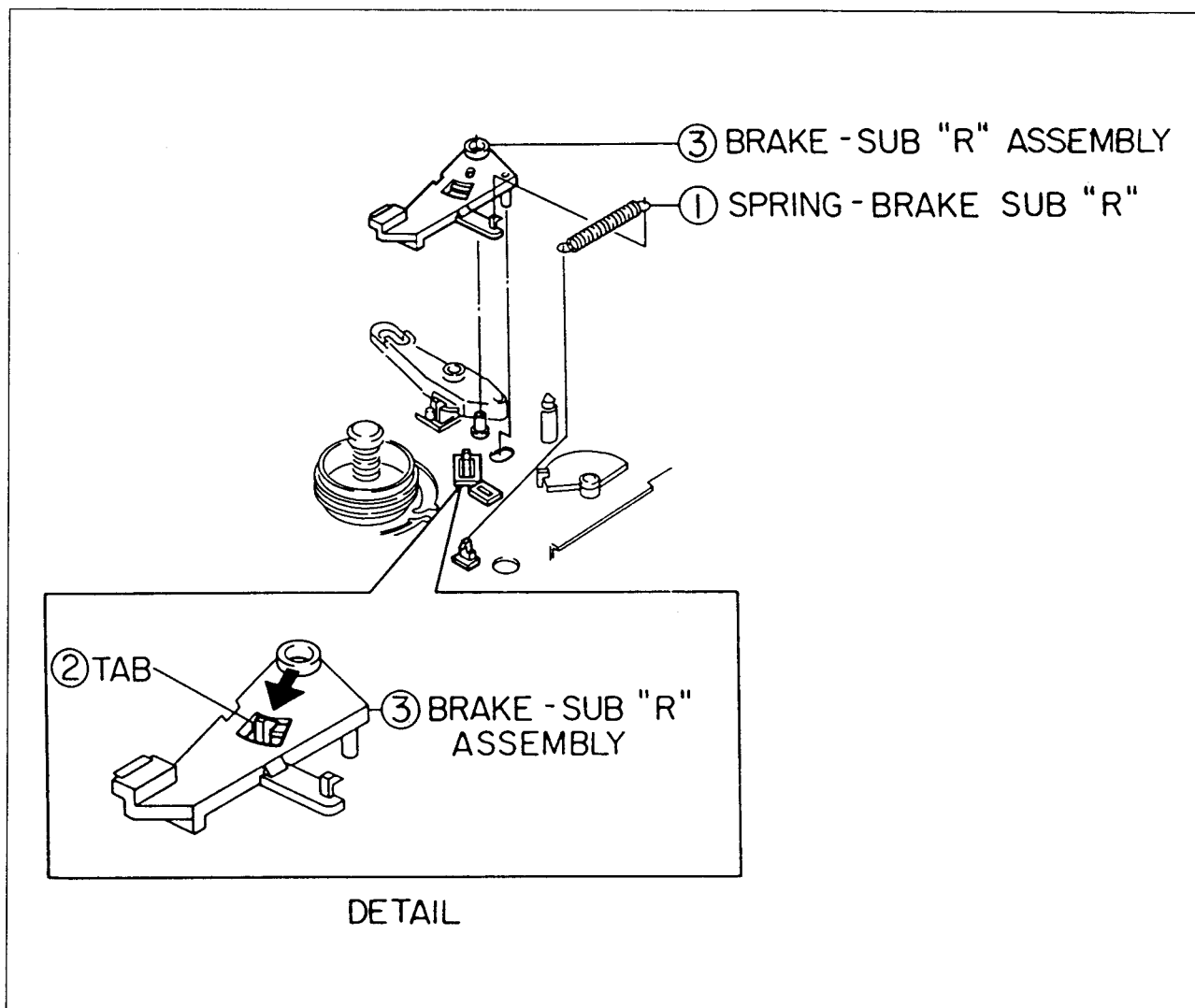


Fig. 4-24



#### 4-4-7 Reel Disk "R" Assembly and Gear Relay "T" Removal

1. Release the tab ① in the direction of arrow. Refer to detail drawing.
2. Lift the reel disk 'R' assembly ②.
3. Remove the washer plain ③.
4. Remove the washer slit ④.
5. Lift the gear relay 'T' assembly ⑤.
6. Note: When reinstalling, be sure to install the reel disk 'R' assembly ② after installing the washer, plain ③.

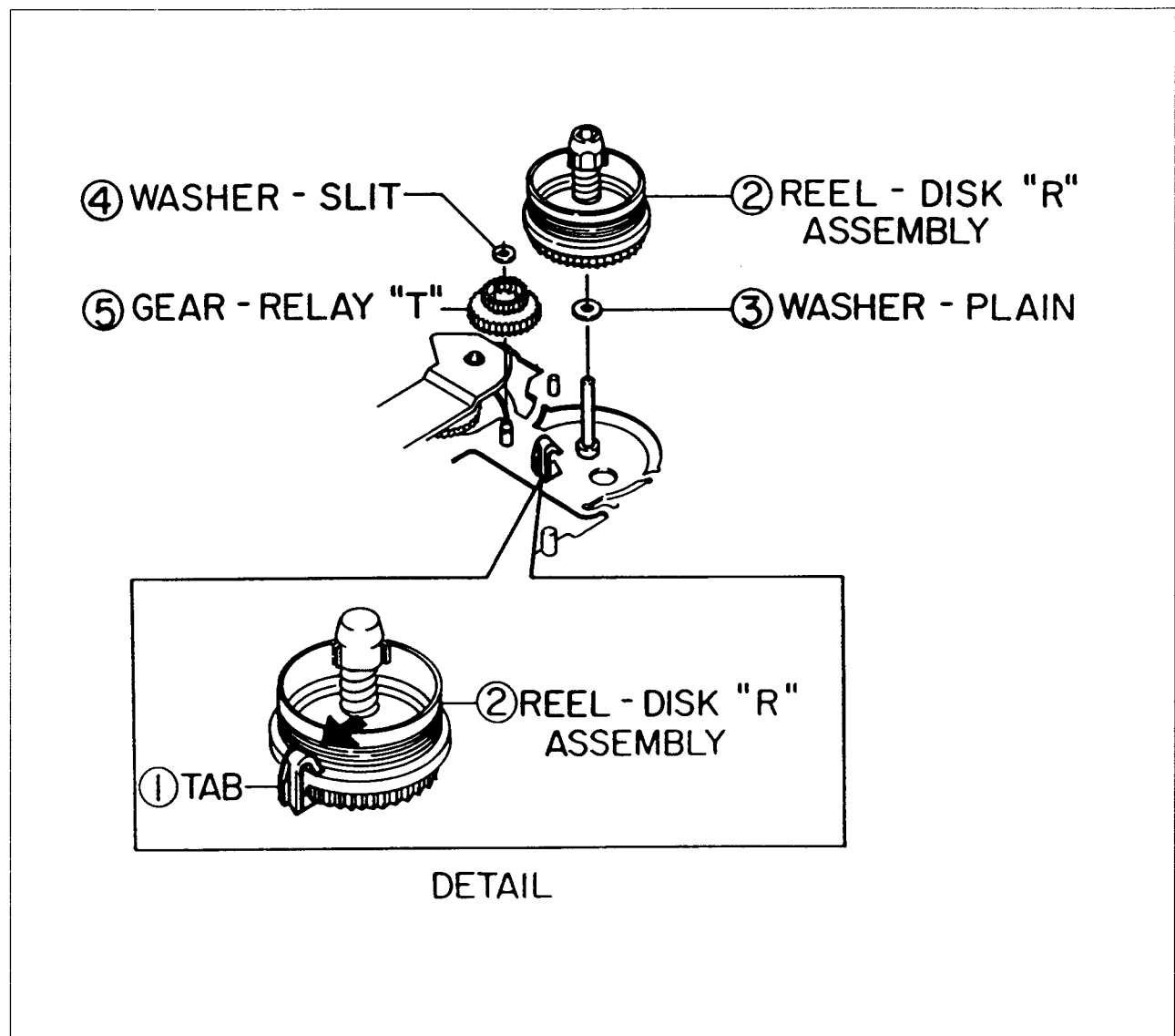


Fig. 4-25

#### 4-4-8 Brake Mail "L", "R" Assembly Removal

1. Remove the spring brake main ①.
2. Release the tab ② in the direction of arrow 'A'.  
Refer to Detail Drawing 'A'.
3. Lift the brake main 'L' ③.
4. Release the tab ④ in the direction of arrow 'B'.  
Refer to Detail Drawing 'B'.
5. Lift the brake main 'R' ⑤.

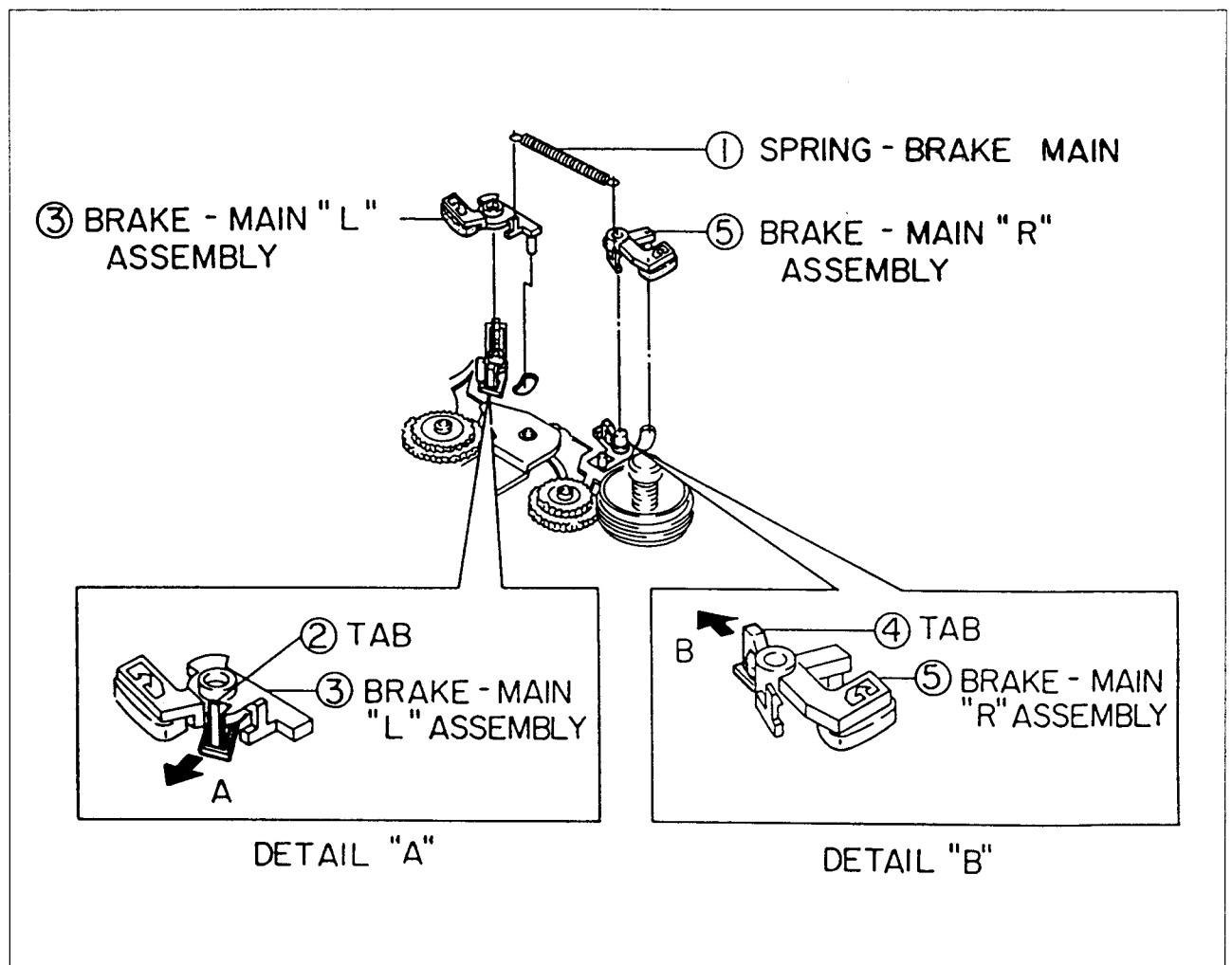


Fig. 4-26

#### 4-4-9 Idler Assembly Removal

1. Remove the washer slit ①.
2. Lift the idler assembly ②.

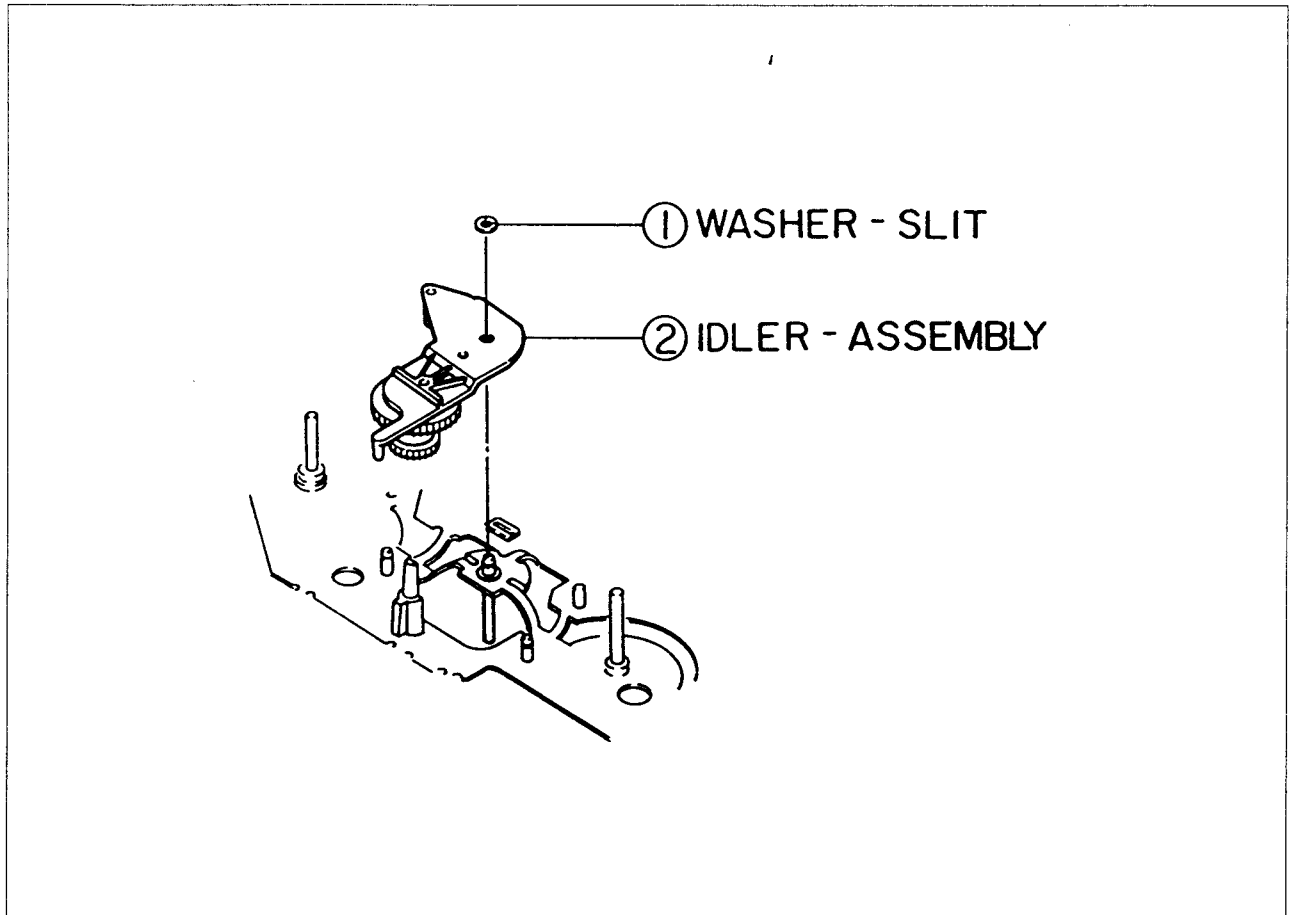


Fig. 4-27

#### 4-4-10 Unit Pinch Roller Assembly Removal

1. Remove the washer slit ①.
2. Lift the unit pinch roller ②.
3. Lift the spring arm pinch ③.

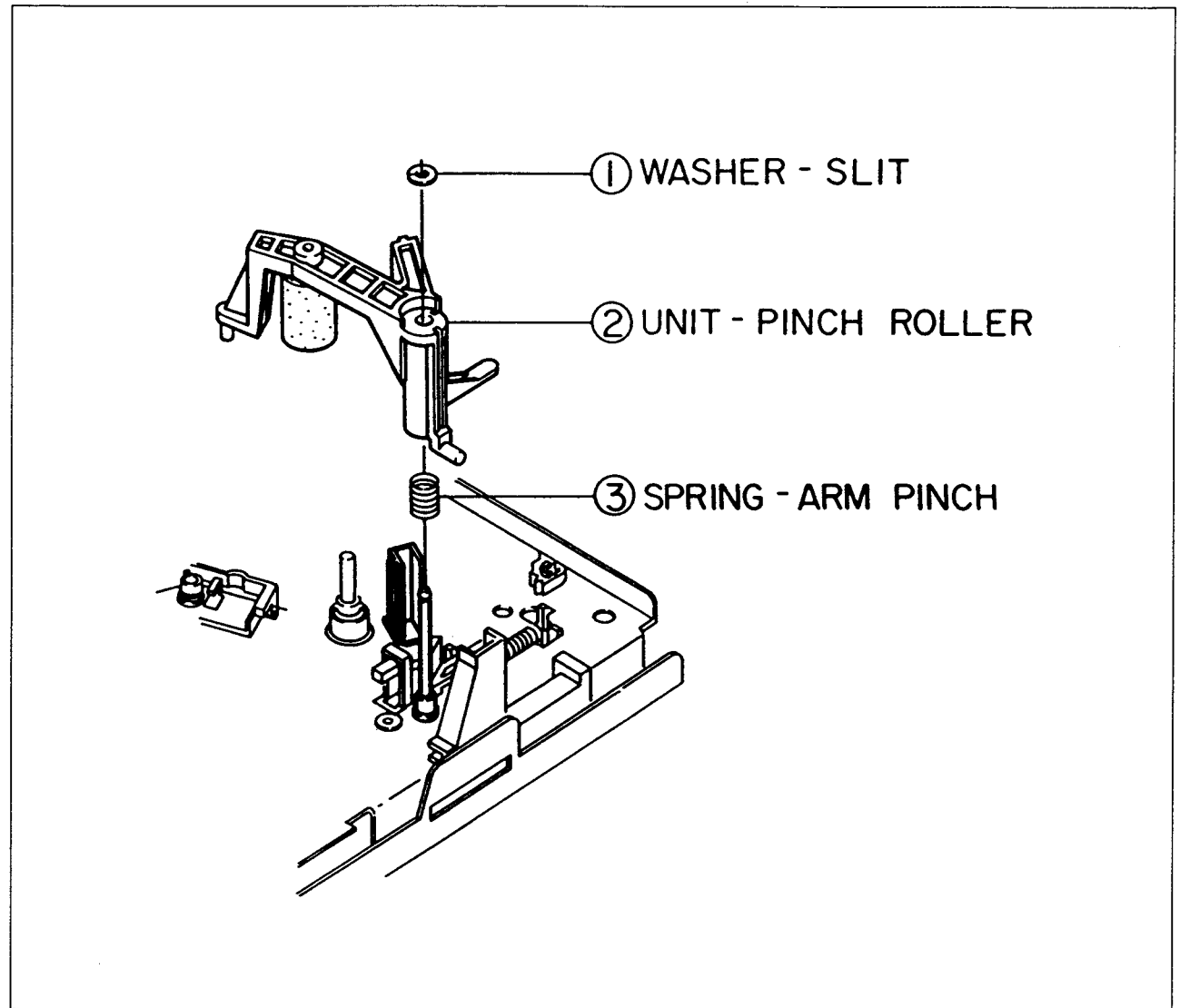


Fig. 4-28

#### 4-4-11 Assembly of Unit Pinch Roller

1. Install the unit pinch roller as shown in the figure. Refer to A, B.

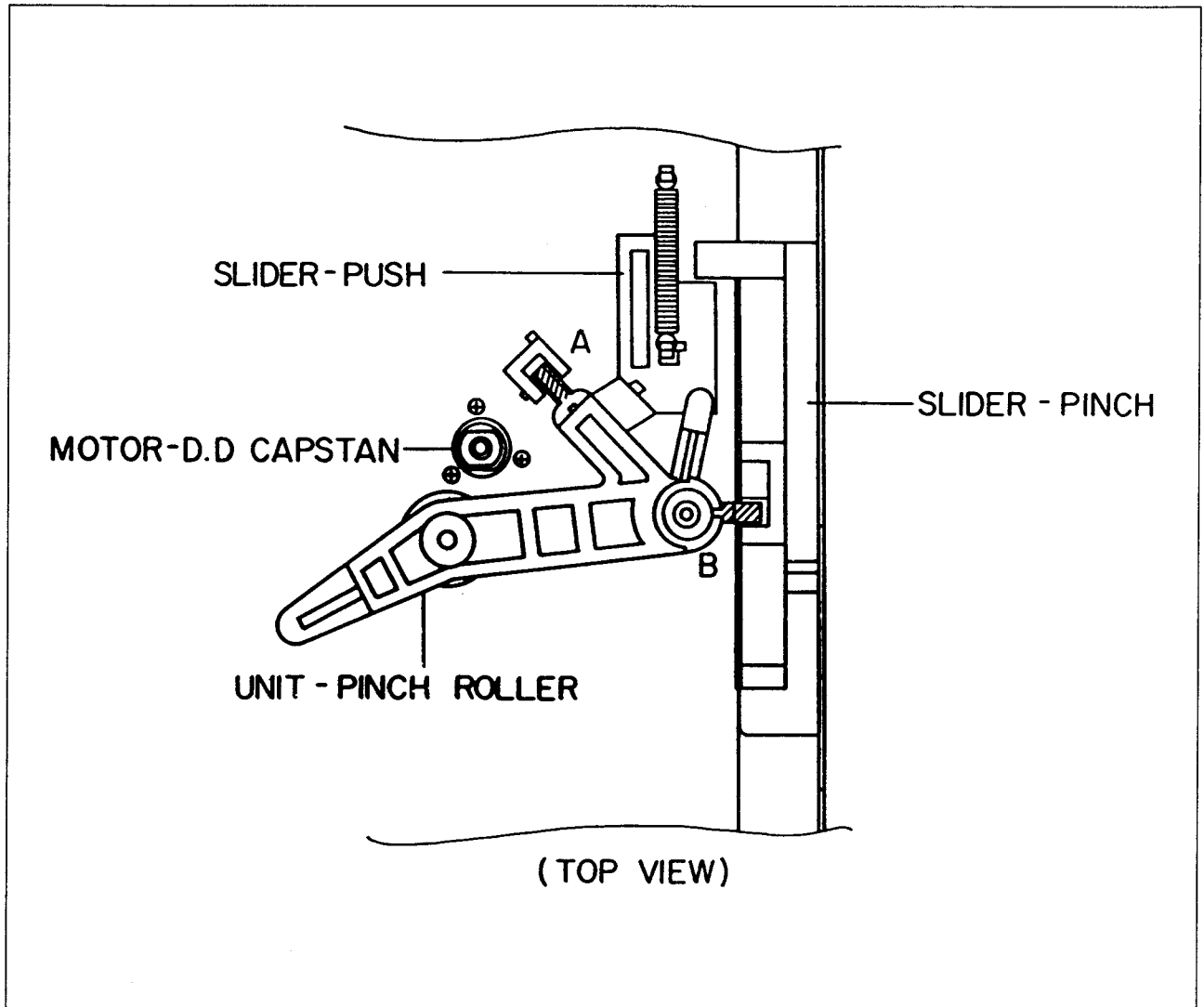


Fig. 4-29

**Exploded View of Lever Pinch Component Assembly  
Lever Pinch Cam, Arm Review Assembly and Lever Review Assembly**

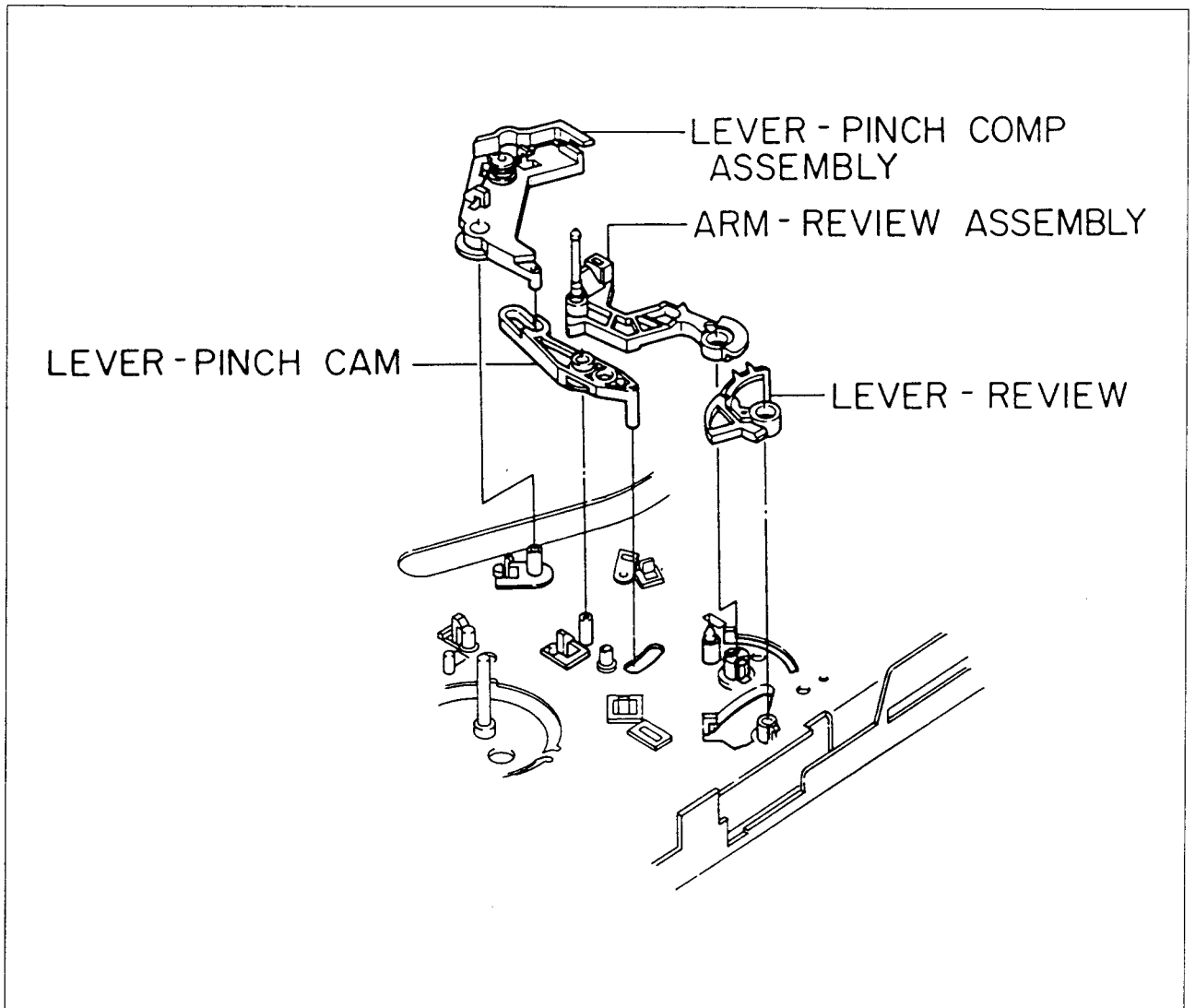


Fig. 4-30

#### 4-4-13 Lever Pinch Component Assembly Removal

1. Release the tab ① in the direction of arrow. Refer to the detail drawing.
2. Lift the lever pinch comp assembly ②.
3. During removal, do not touch the lever pinch comp assembly ① to audio head base.

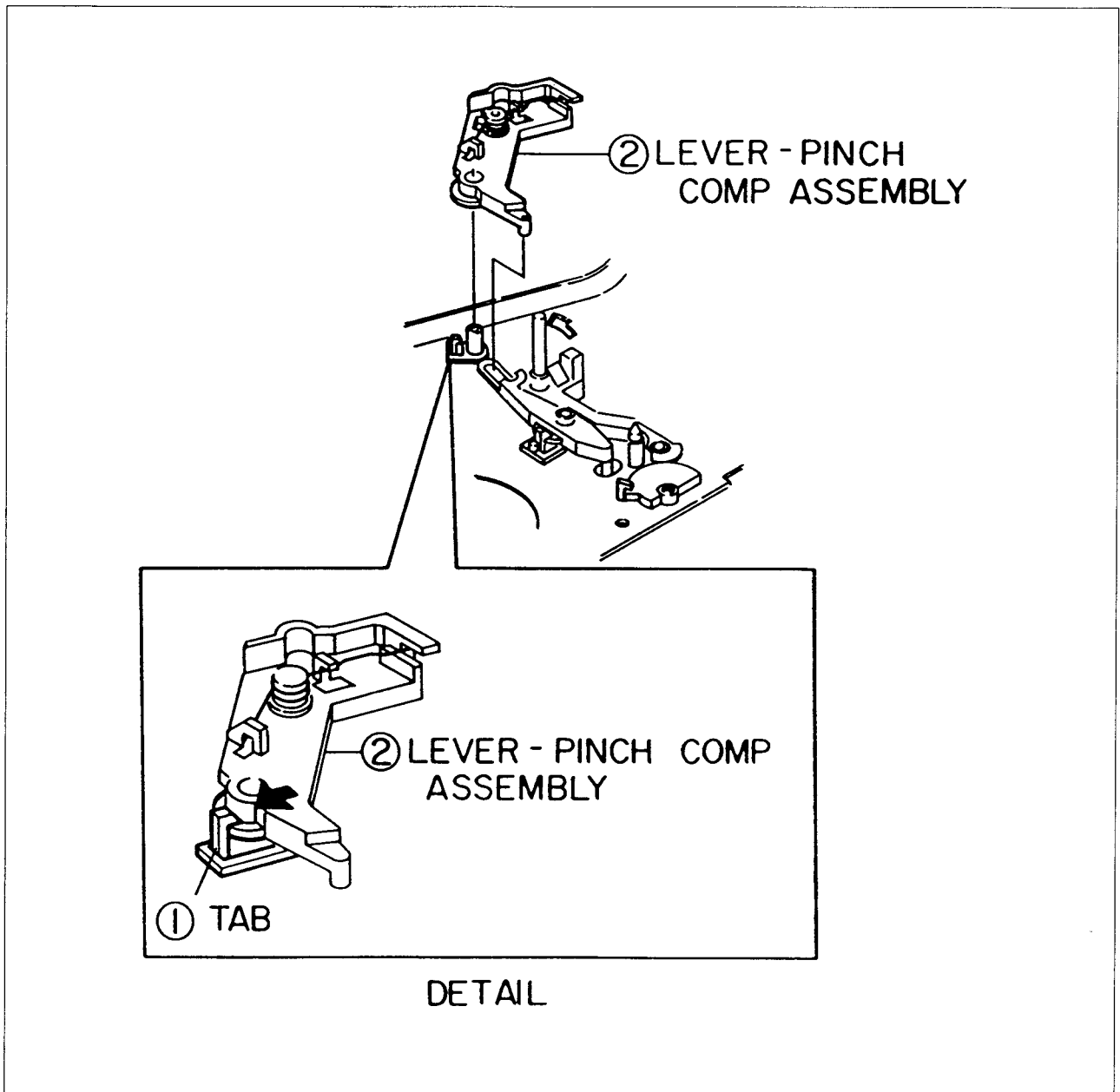


Fig. 4-31

#### 4-4-14 Lever Pinch Cam Removal

1. Release the tab ① in the direction of arrow. Refer to the detail drawing.
2. Lift the lever pinch arm ②.

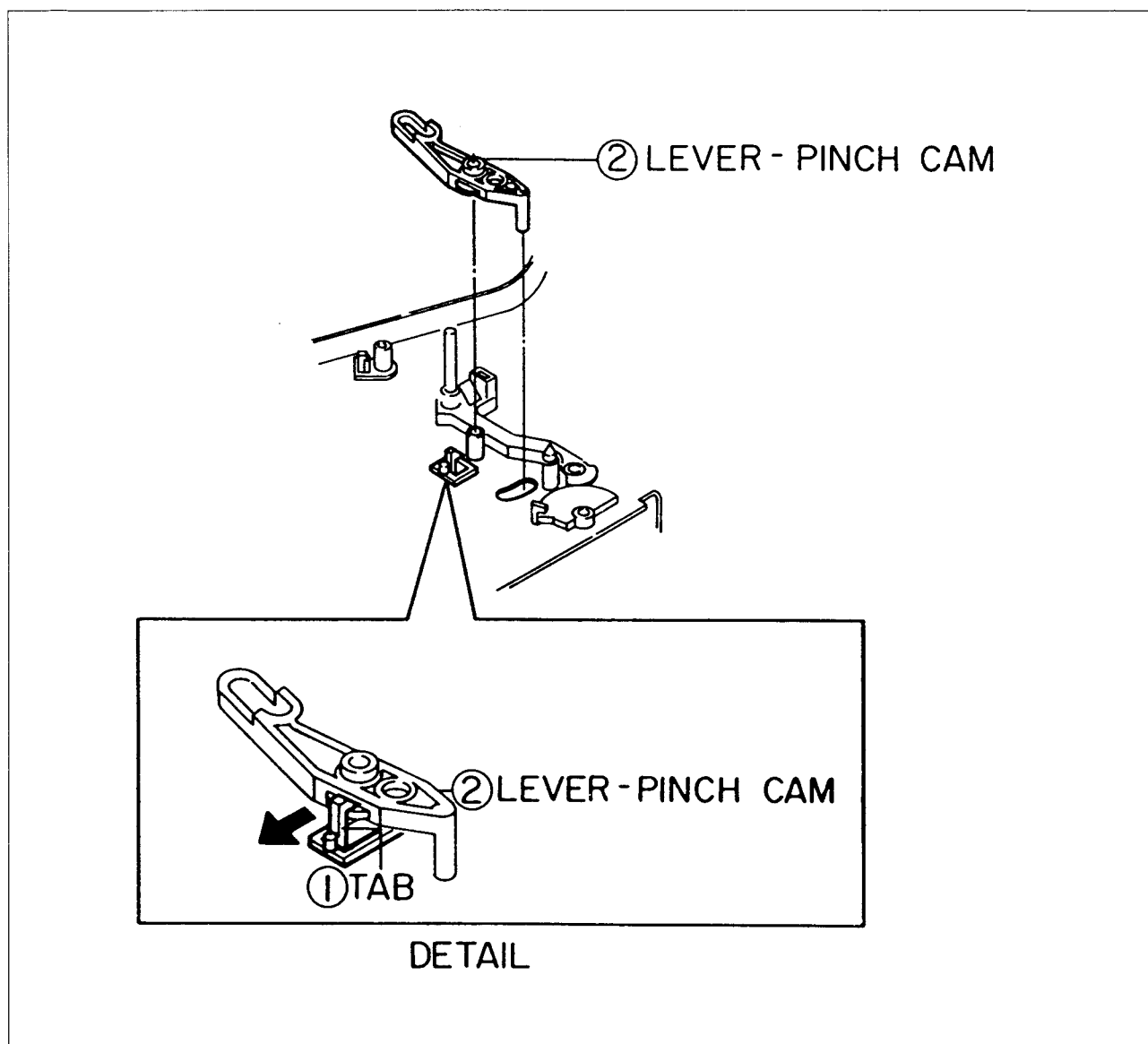


Fig. 4-32



#### 4-4-15 Arm Review Assembly Removal

1. Push the stopper tab ① in direction of arrow.
2. Pull the arm review assembly ② in the direction of arrow 'A' and then confirm 'B'. Refer to detail drawing 'A'.
3. Release the tab ③ in the direction of arrow and then lift the arm review assembly ②.
4. Note: Take extreme care when removing the arm review assembly ②. Refer to the 'B' part of detail drawing 'A'.

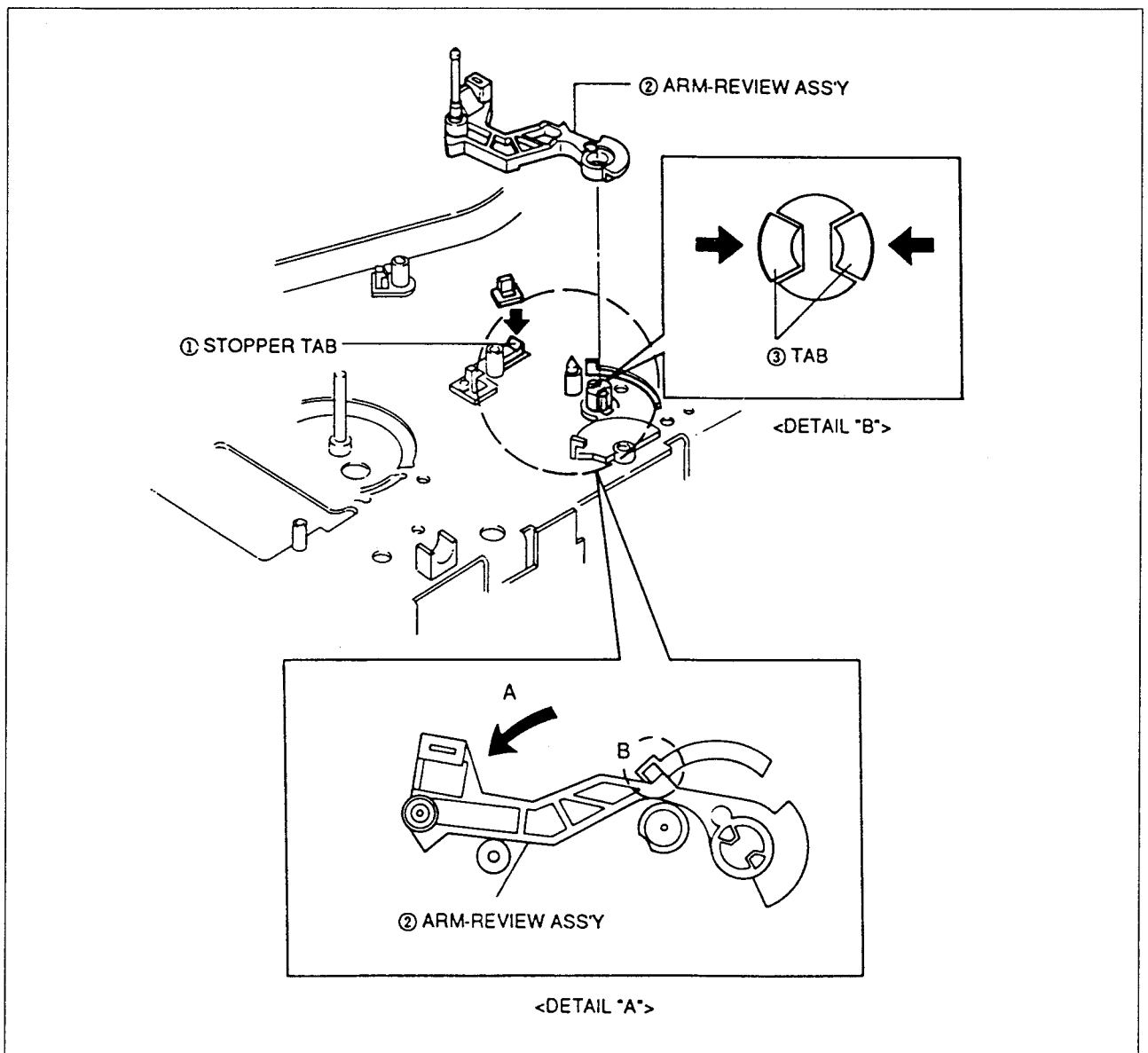


Fig. 4-33

#### 4-4-16 Lever Review Removal

1. Release the tab ① in the direction of the arrow.
2. Lift the lever review ②.

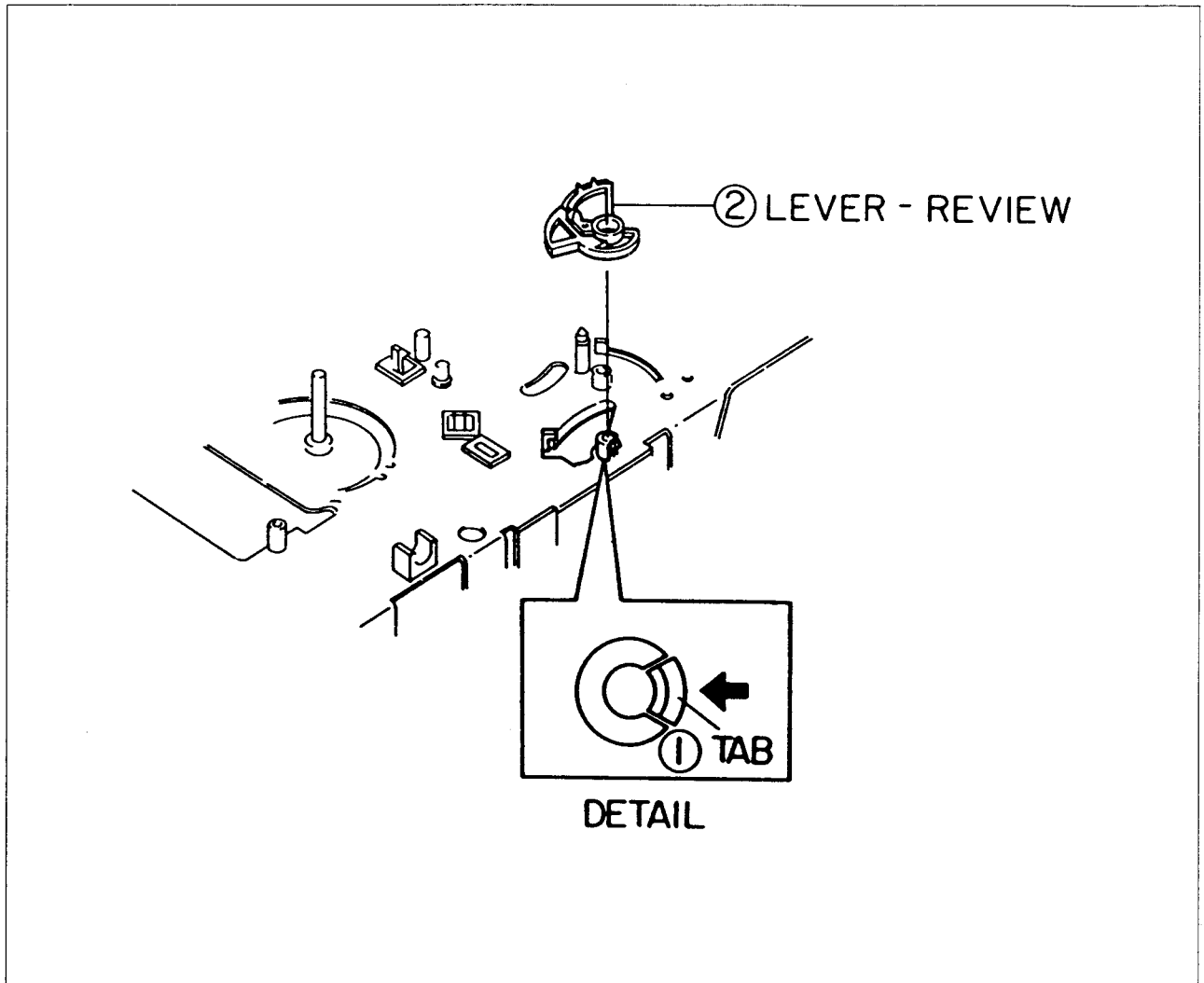


Fig. 4-34

#### 4-4-17 Belt Capstan Removal

1. Remove the belt capstan ①.
2. Note: Take extreme care not to touch the grease when removing or reinstalling.

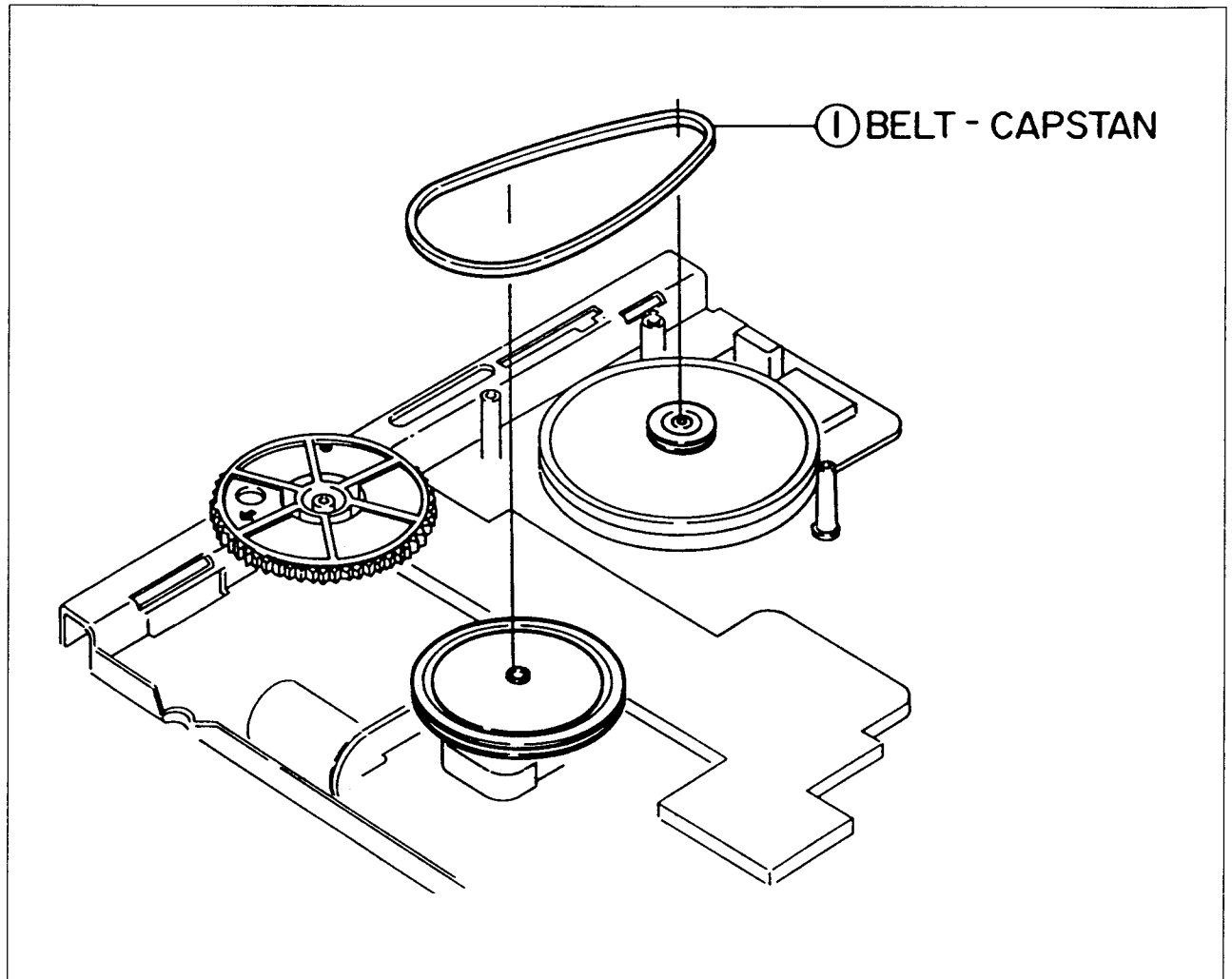


Fig. 4-35

#### 4-4-18 Brake Capstan Assembly Removal

1. Remove the spring brake capstan ①.
2. Release the tab ② in the direction of arrow. Refer to detail drawing.
3. Lift the brake capstan assembly ③.

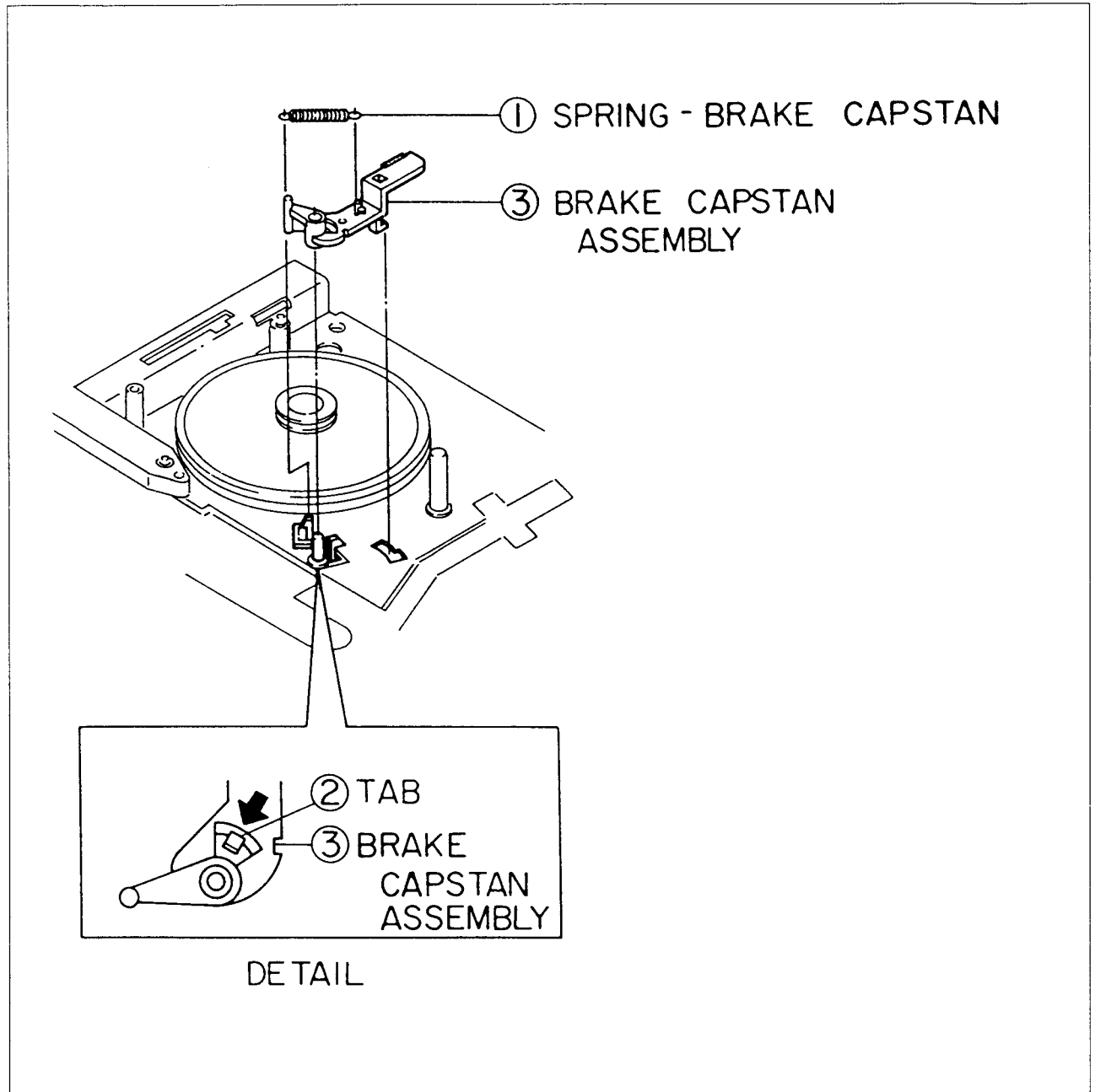


Fig. 4-36

#### 4-4-17 Belt Capstan Removal

1. Remove the belt capstan ①.
2. Note: Take extreme care not to touch the grease when removing or reinstalling.

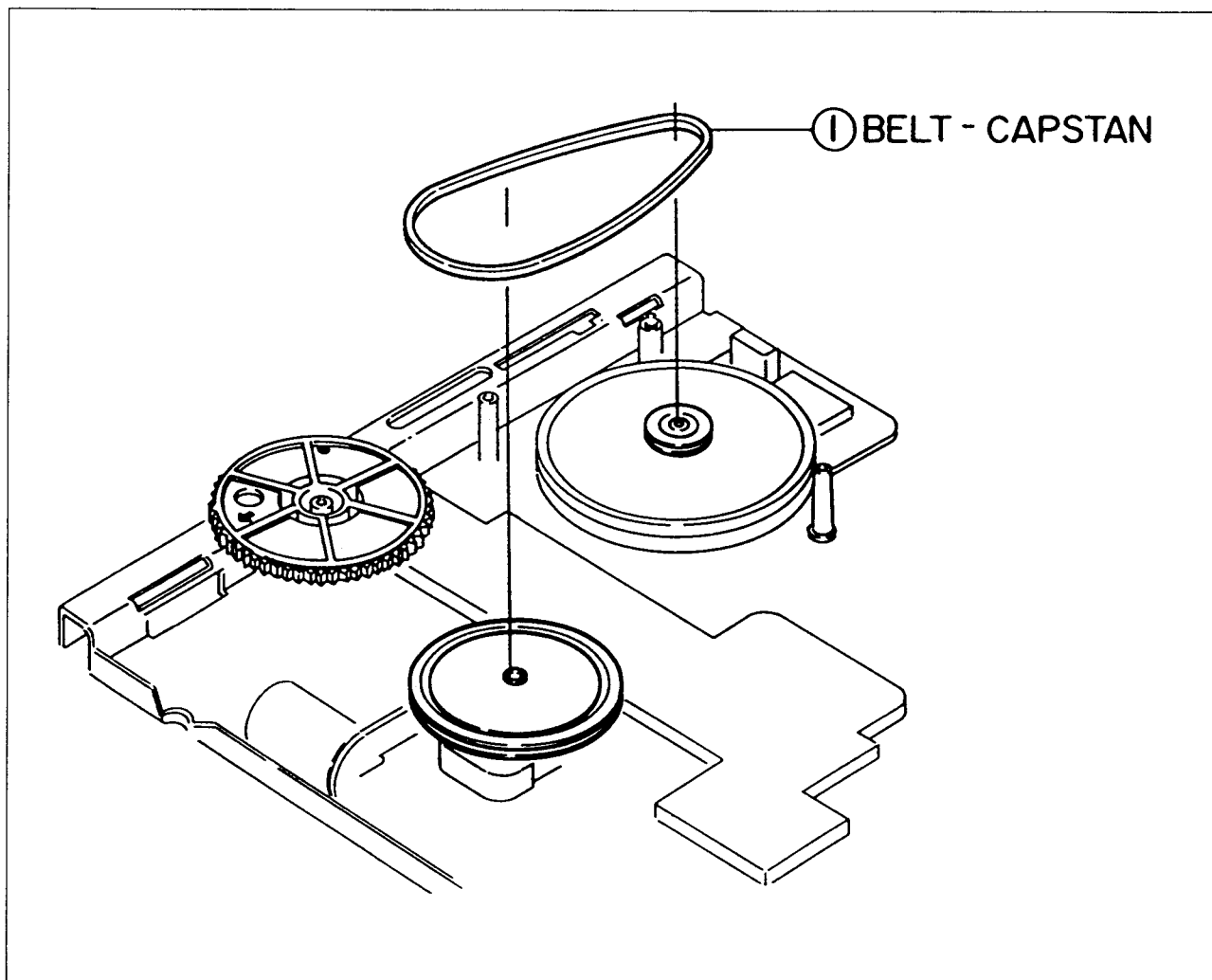


Fig. 4-35

#### 4-4-18 Brake Capstan Assembly Removal

1. Remove the spring brake capstan ①.
2. Release the tab ② in the direction of arrow. Refer to detail drawing.
3. Lift the brake capstan assembly ③.

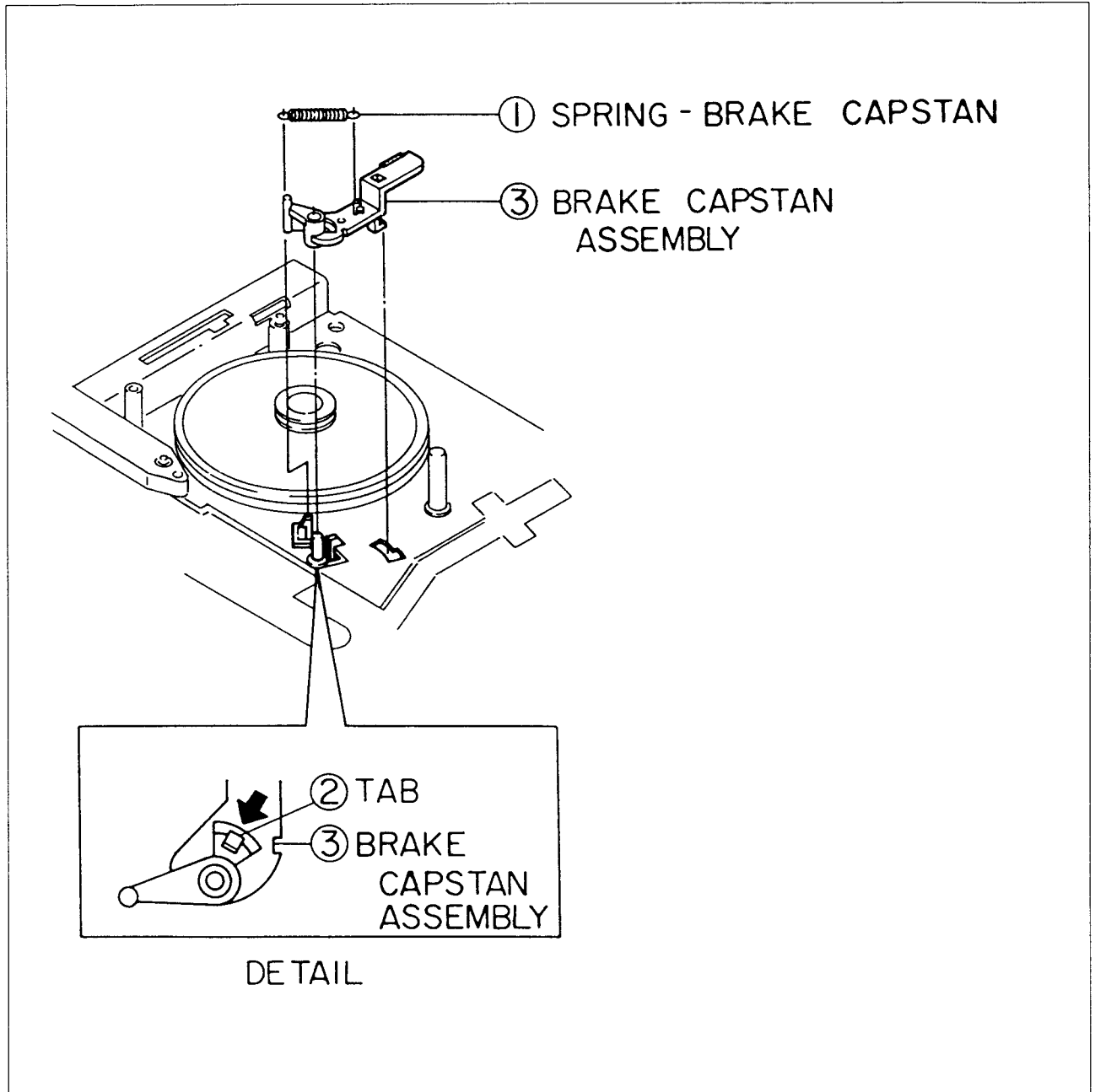


Fig. 4-36

#### 4-4-19 Motor D.D Capstan Removal

1. Remove 3 screws ① (top view).
2. Lift the motor D.D capstan ② in the direction of arrow (bottom view).

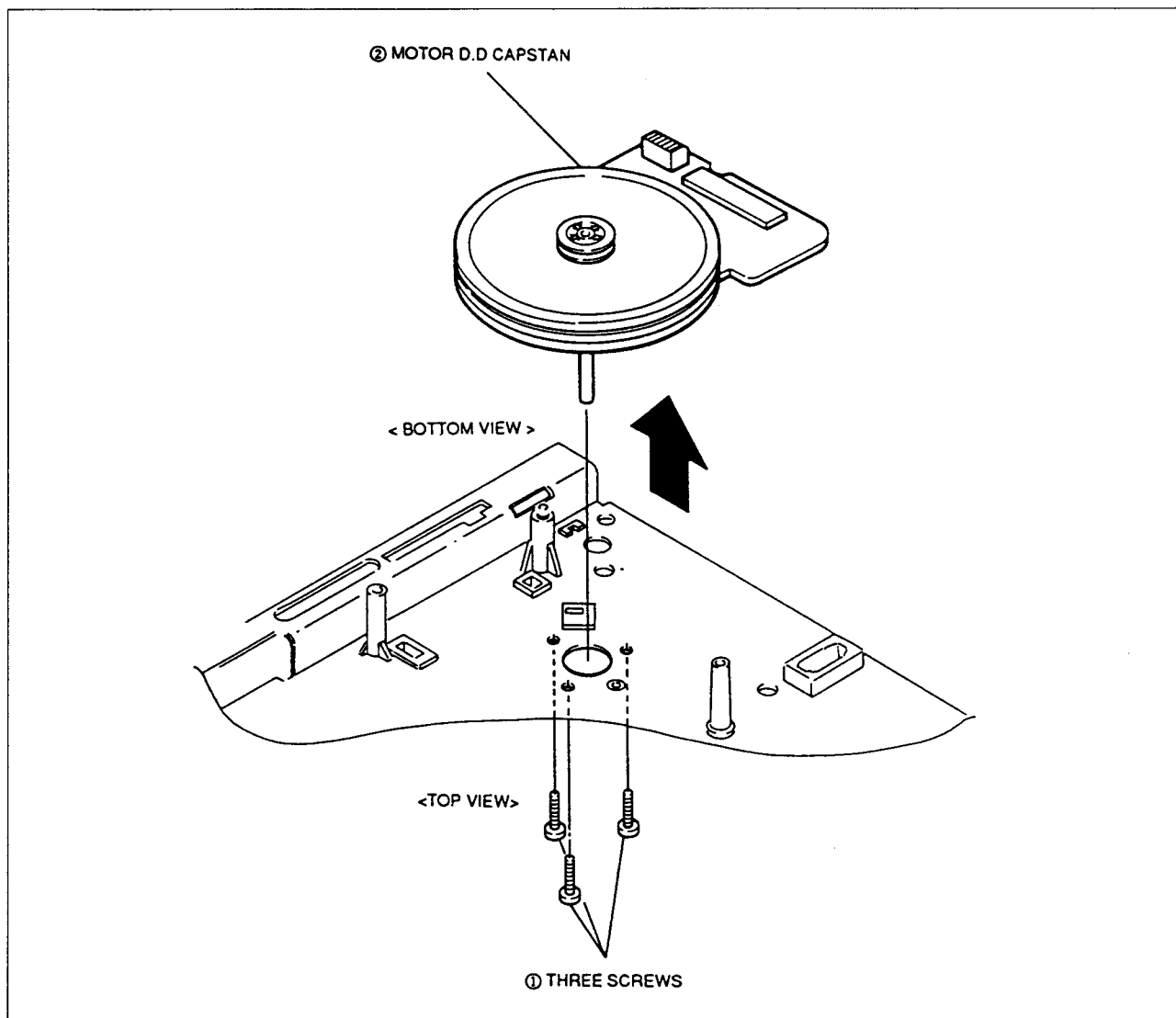


Fig. 4-37

#### 4-4-20 Clutch Assembly Removal

1. Remove the washer slit ①.
2. Lift the clutch assembly ②.
3. Remove the washer plain ③.

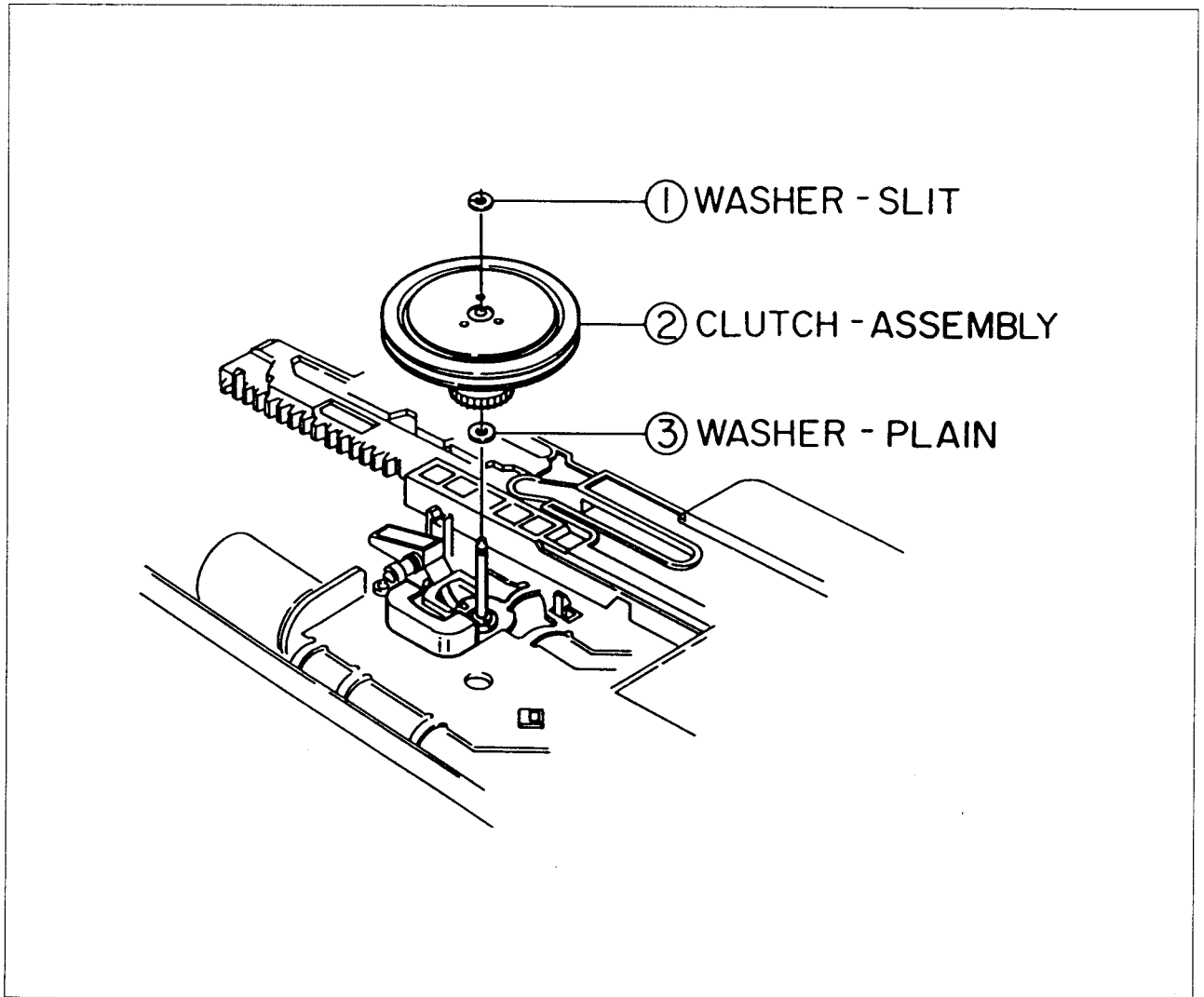


Fig. 4-38



#### 4-4-21 Gear Master Removal

1. Remove the washer slit ①.
2. Lift the gear master ②.

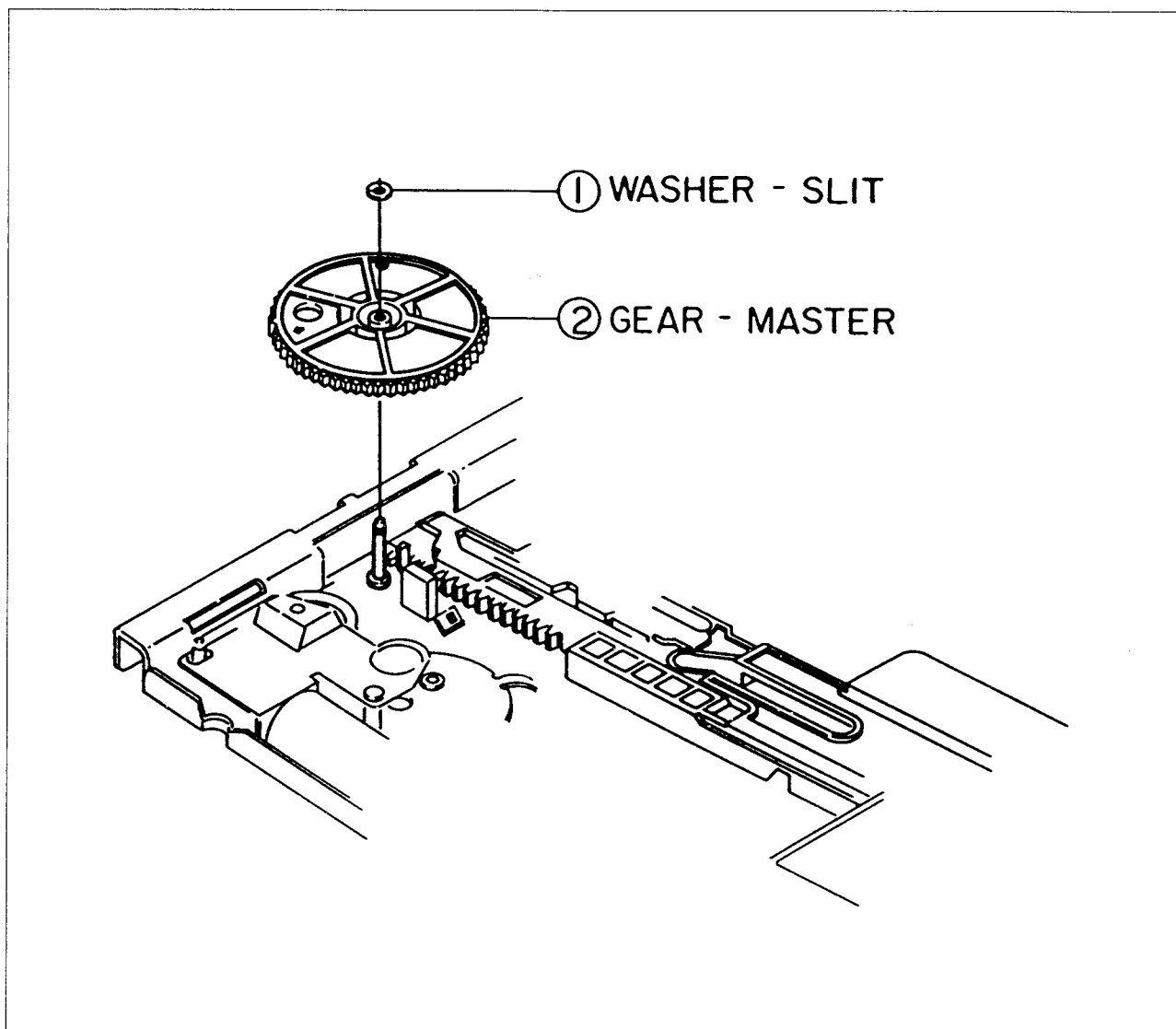


Fig. 4-39

#### 4-4-22 Assembly of Gear Master

1. When reinstalling, be sure to align the arrow mark of gear master ① with gear home of gear worm wheel ②. Refer to timing point.

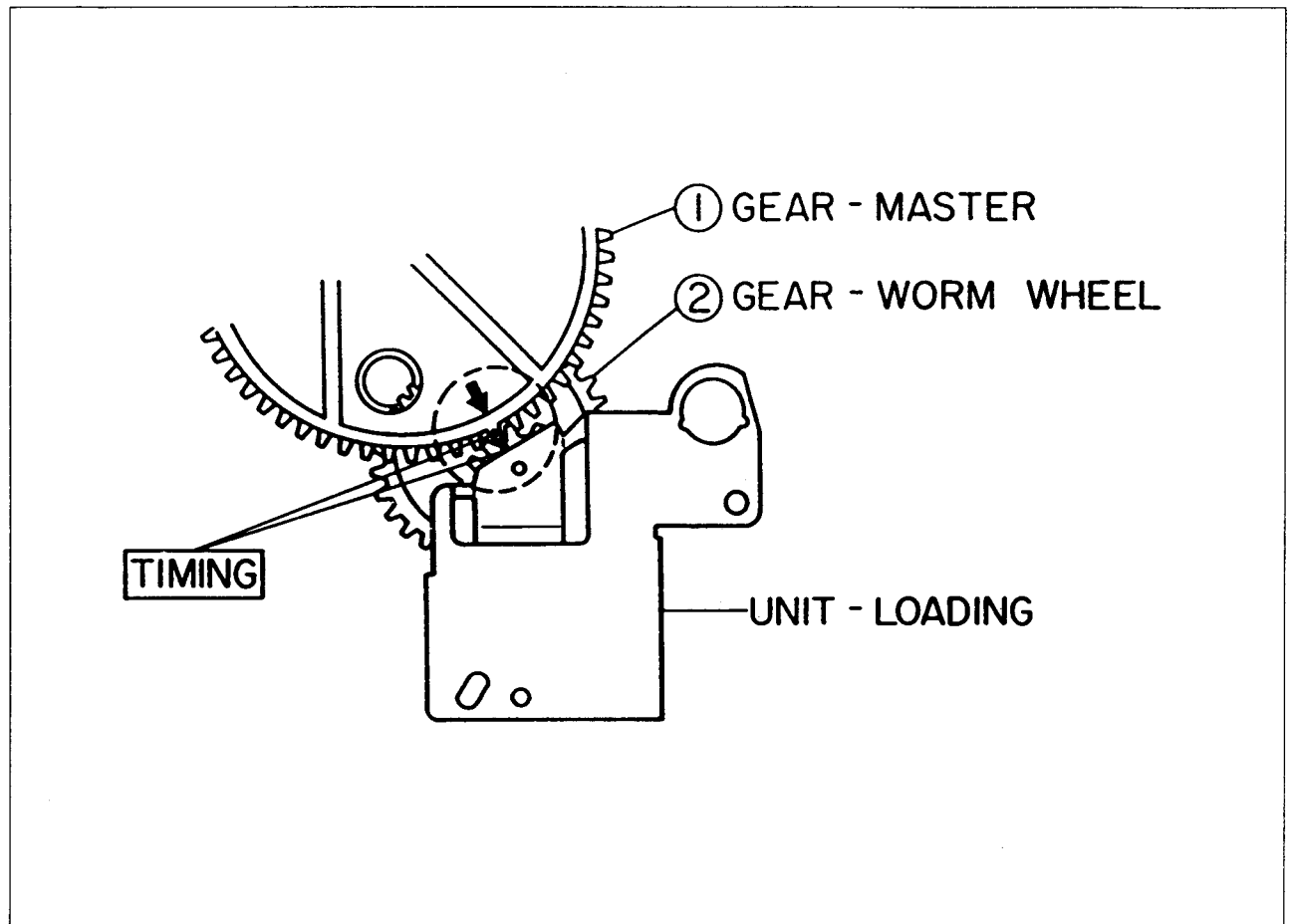


Fig. 4-40

#### 4-4-23 Unit Loading Removal

1. Remove the 2 screws ①.
2. Lift the unit loading ② in the direction of the arrow.

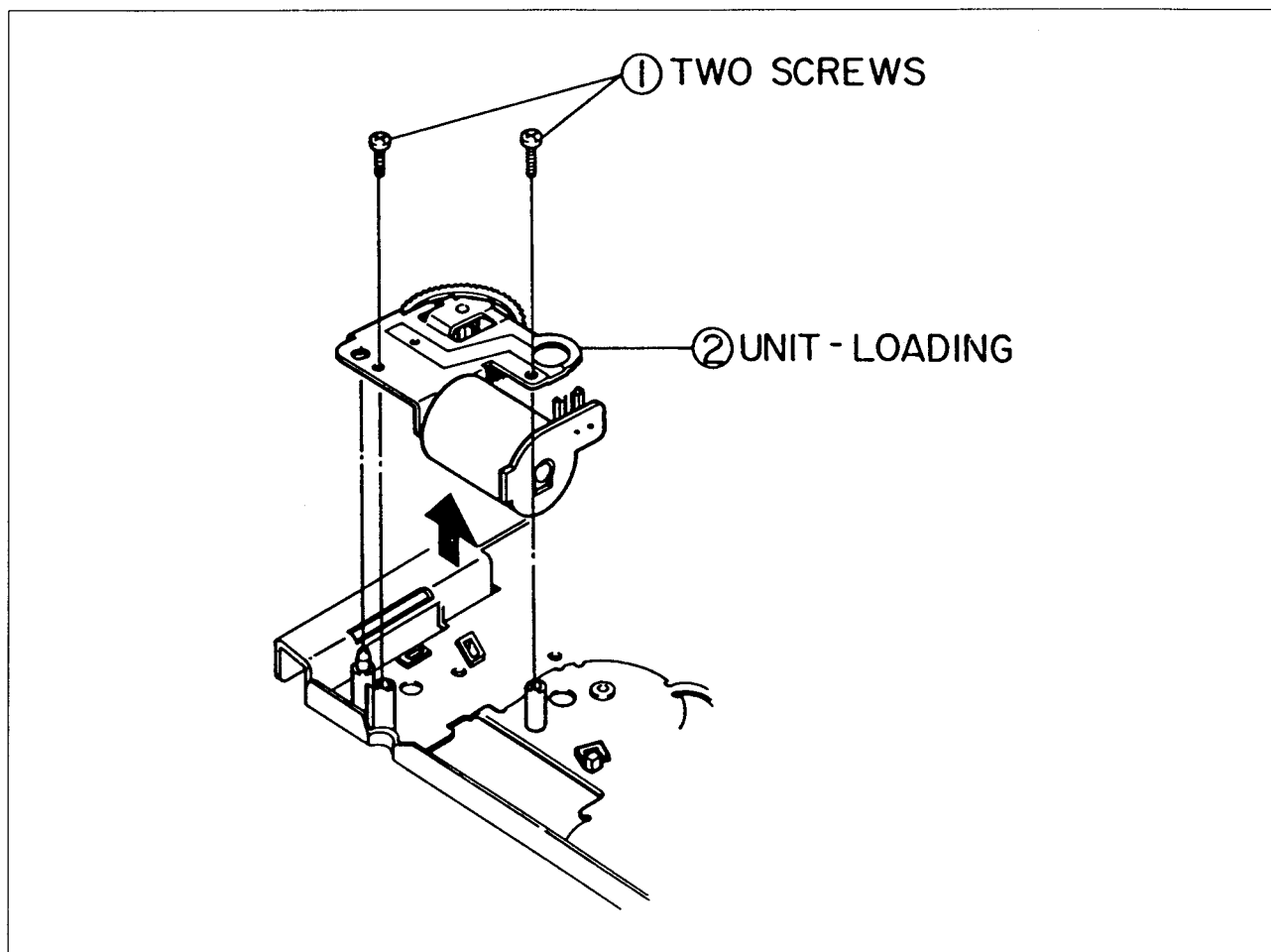


Fig. 4-41

#### 4-4-24 Lever Slide Pinch Removal

1. Remove the washer slit ①.
2. Lift the lever slide pinch ②.

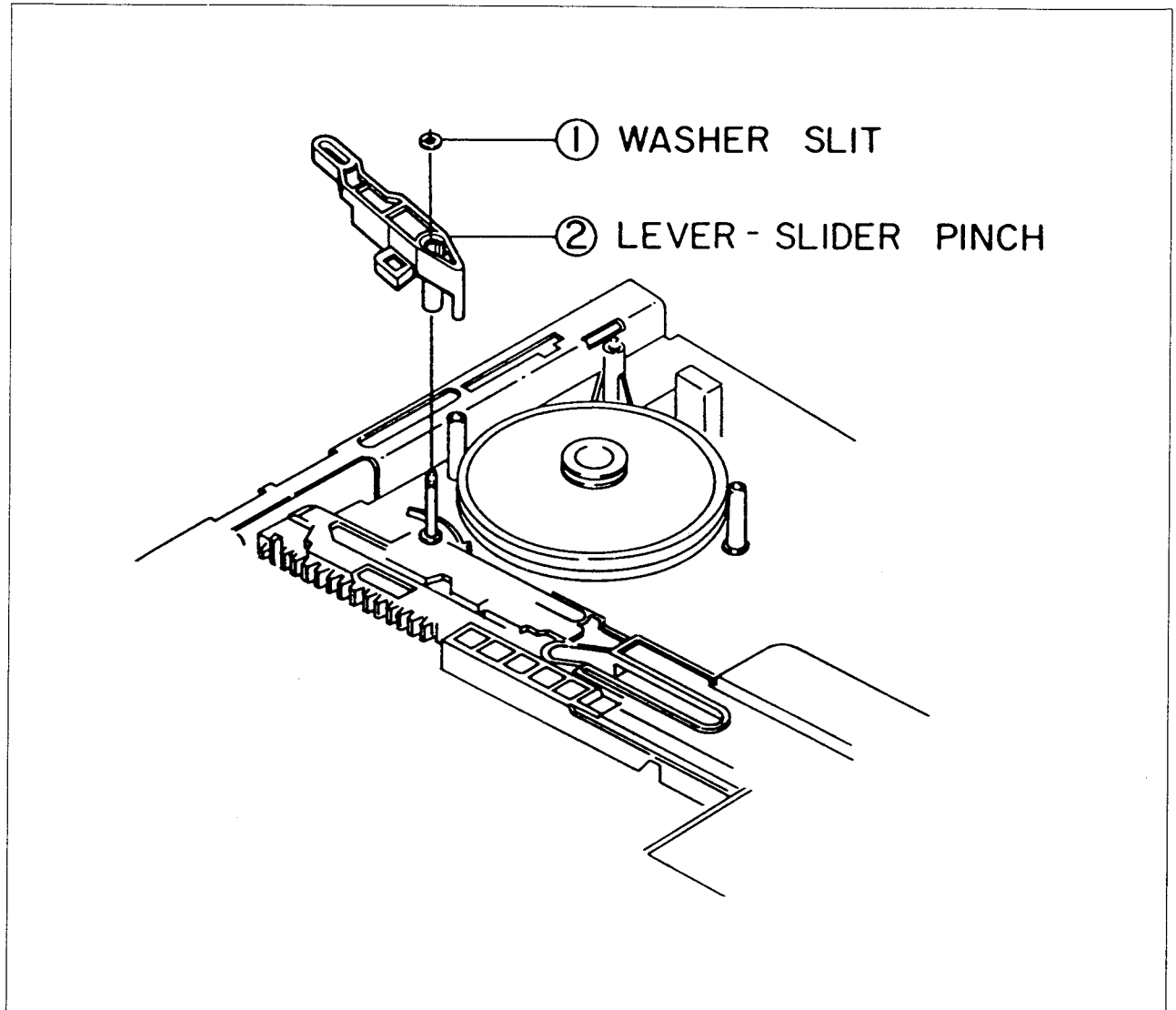


Fig. 4-42

#### 4-4-25 Assembly of Lever Slide Pinch

1. Pull the slide pinch ① to the end in the direction of arrow.
2. Insert the slide pinch ① into the hole of lever slide pinch ②. Refer to 'A' part.

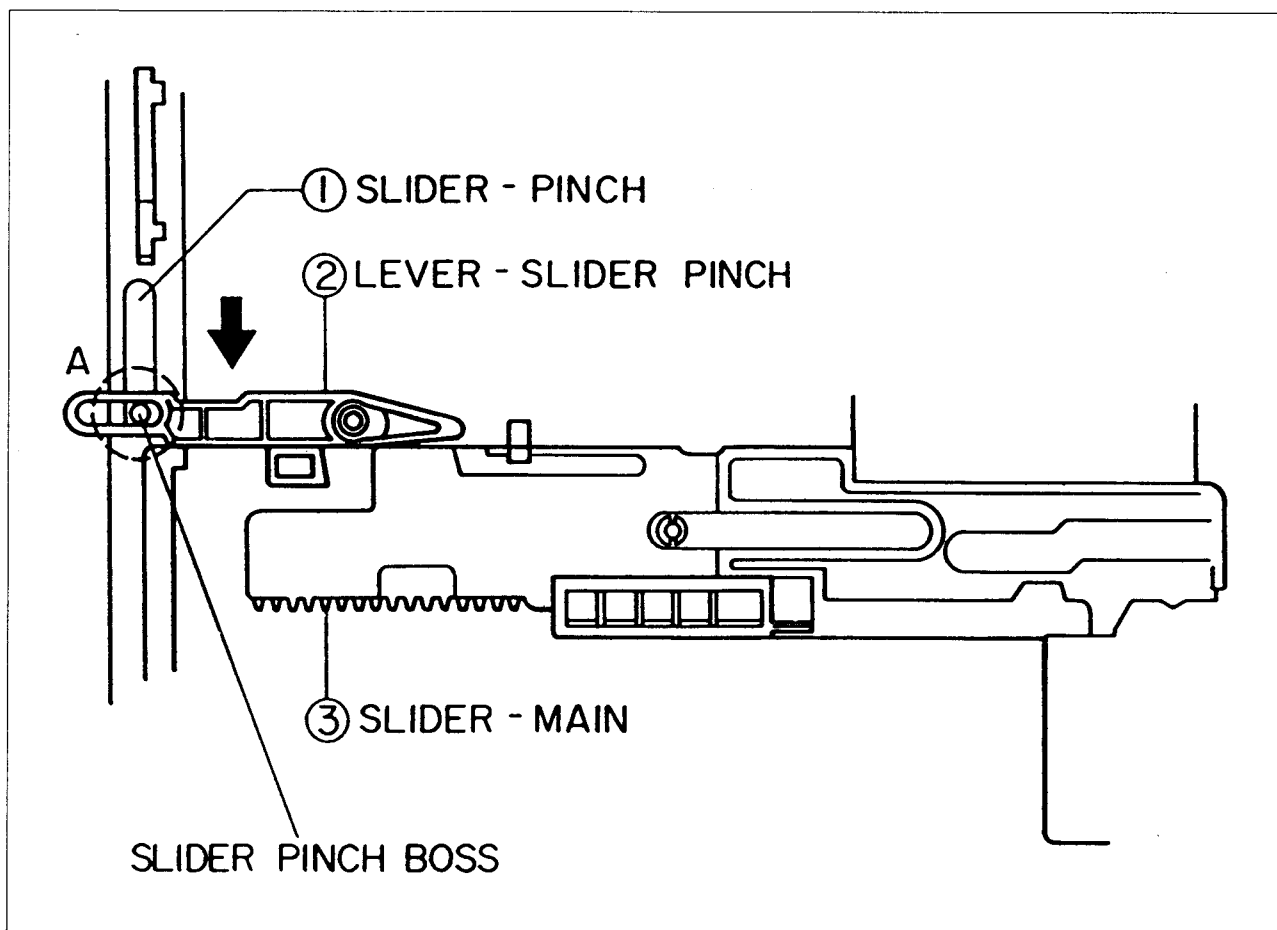


Fig. 4-43

#### 4-4-26 Slide Main Removal

1. Remove the washer slit ①.
2. Release 3 tabs ②, ③ and ④ in the direction of the arrow.
3. Lift the slide main ⑤.

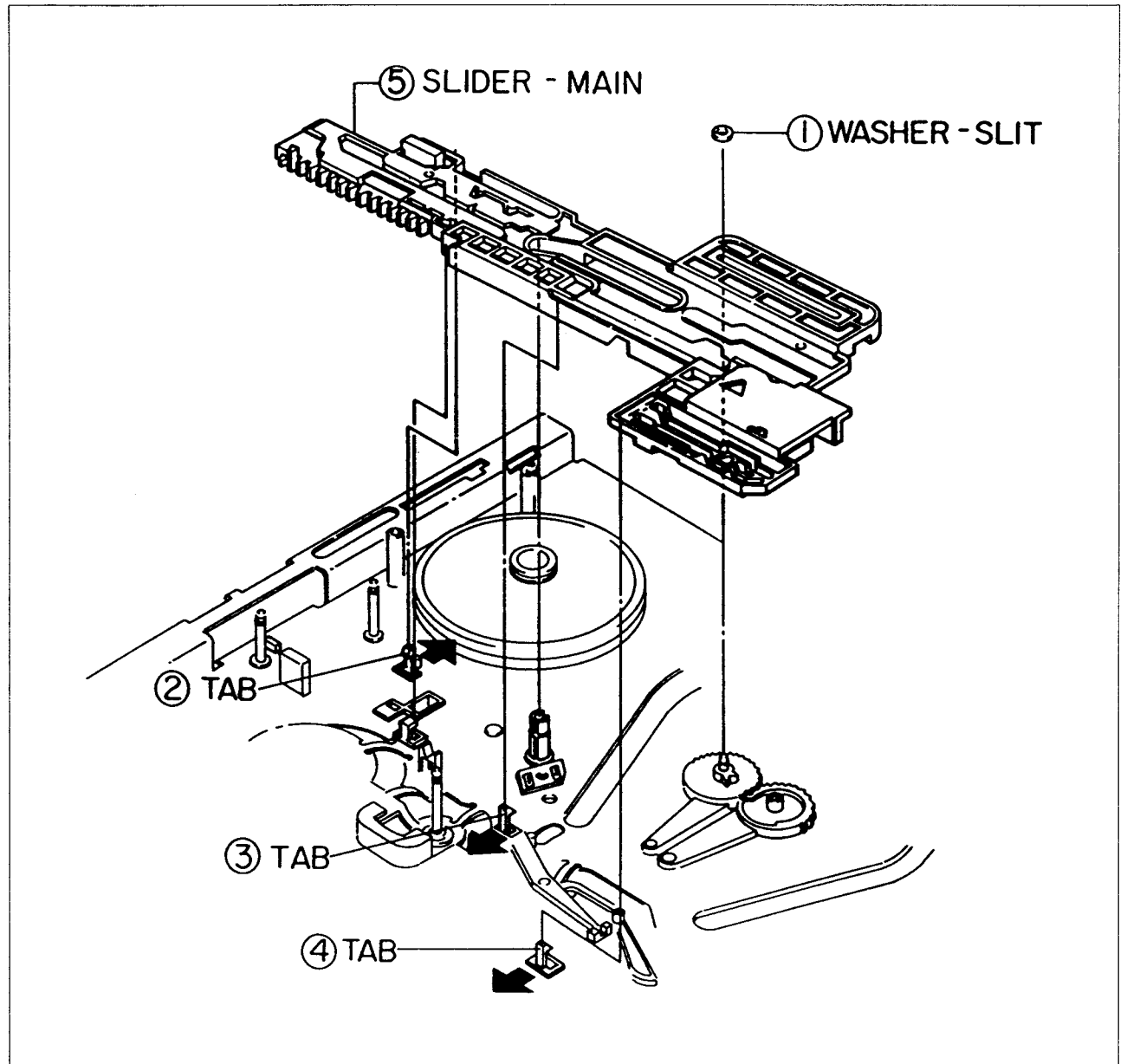


Fig. 4-44

#### 4-4-27 Assembly of Slide Main

1. Install the shaft of gear loading 'R' assembly into the left of the main slide hole and secure with the washer slit ②.
2. Insert the lever tension control ③ and the lever idler change ④ into the slide main hole. Refer to 'B'.
3. After confirming the above items, install the slide main and secure with tabs (a,b,c).
4. Note: Be sure to assemble the slide main when the gear loading 'L/R' assembly is in unloading position.

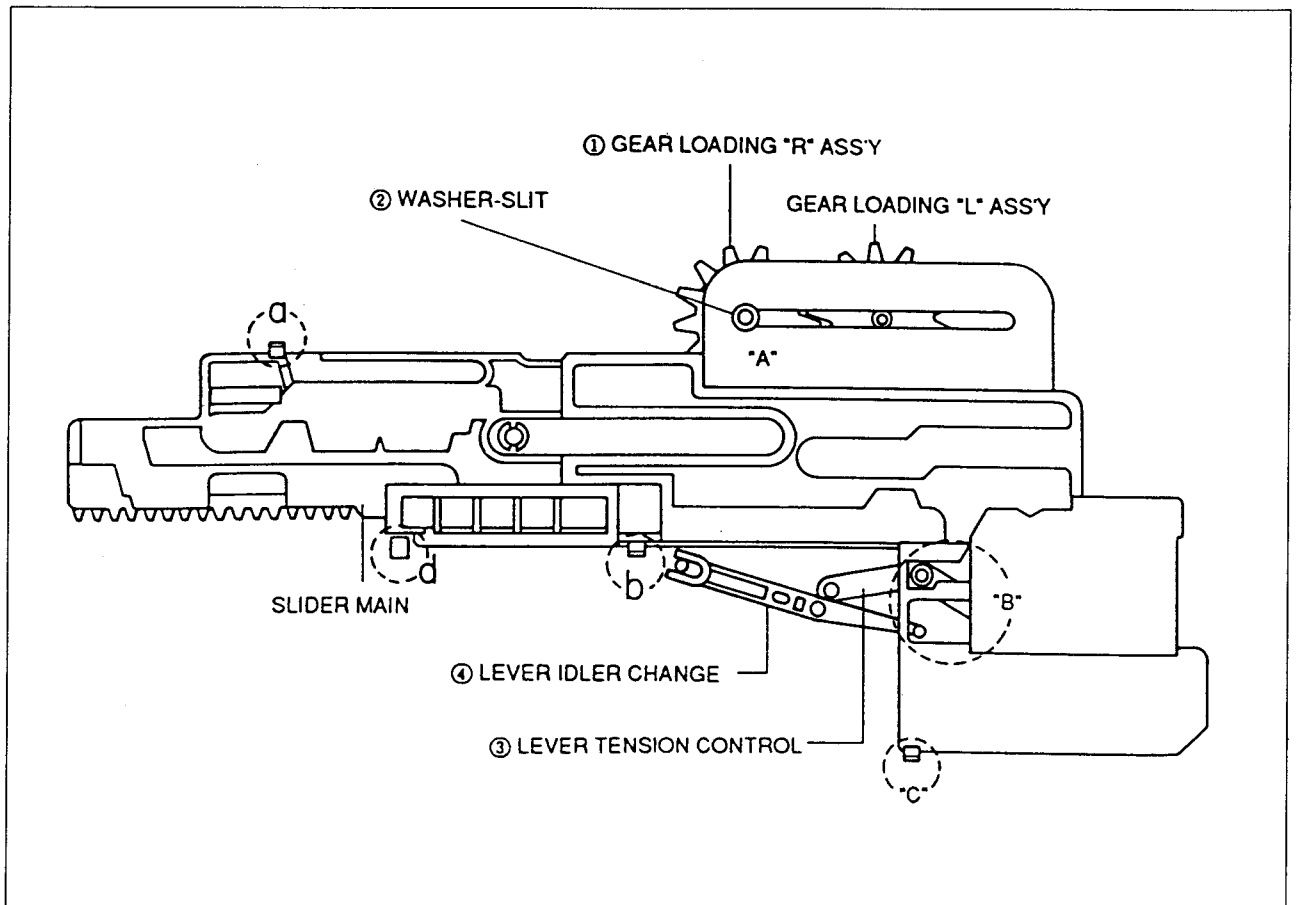


Fig. 4-45

#### 4-4-28 Lever Shift Assembly Removal

1. Hang the spring lever shift ① to the clew of the lever shift ③.  
Refer to detail drawings 'A' and 'B'.
2. Release the tab ② in the direction of the arrow.
3. Lift the shift lever ③.

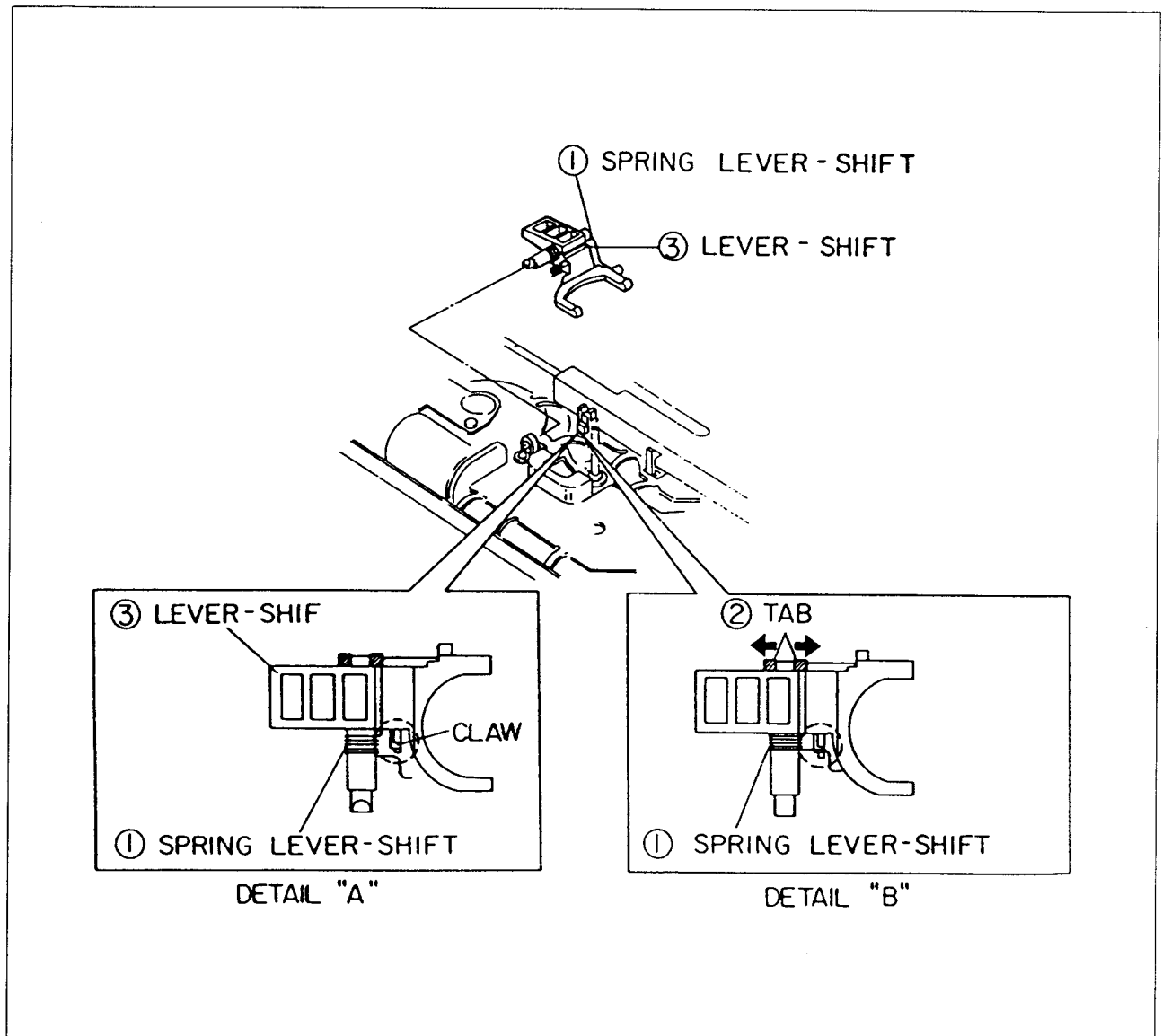


Fig. 4-46



#### 4-4-29 Lever Idler Change Removal

1. Release the tab ① in the direction of the arrow.
2. Lift the idler-change lever ②.

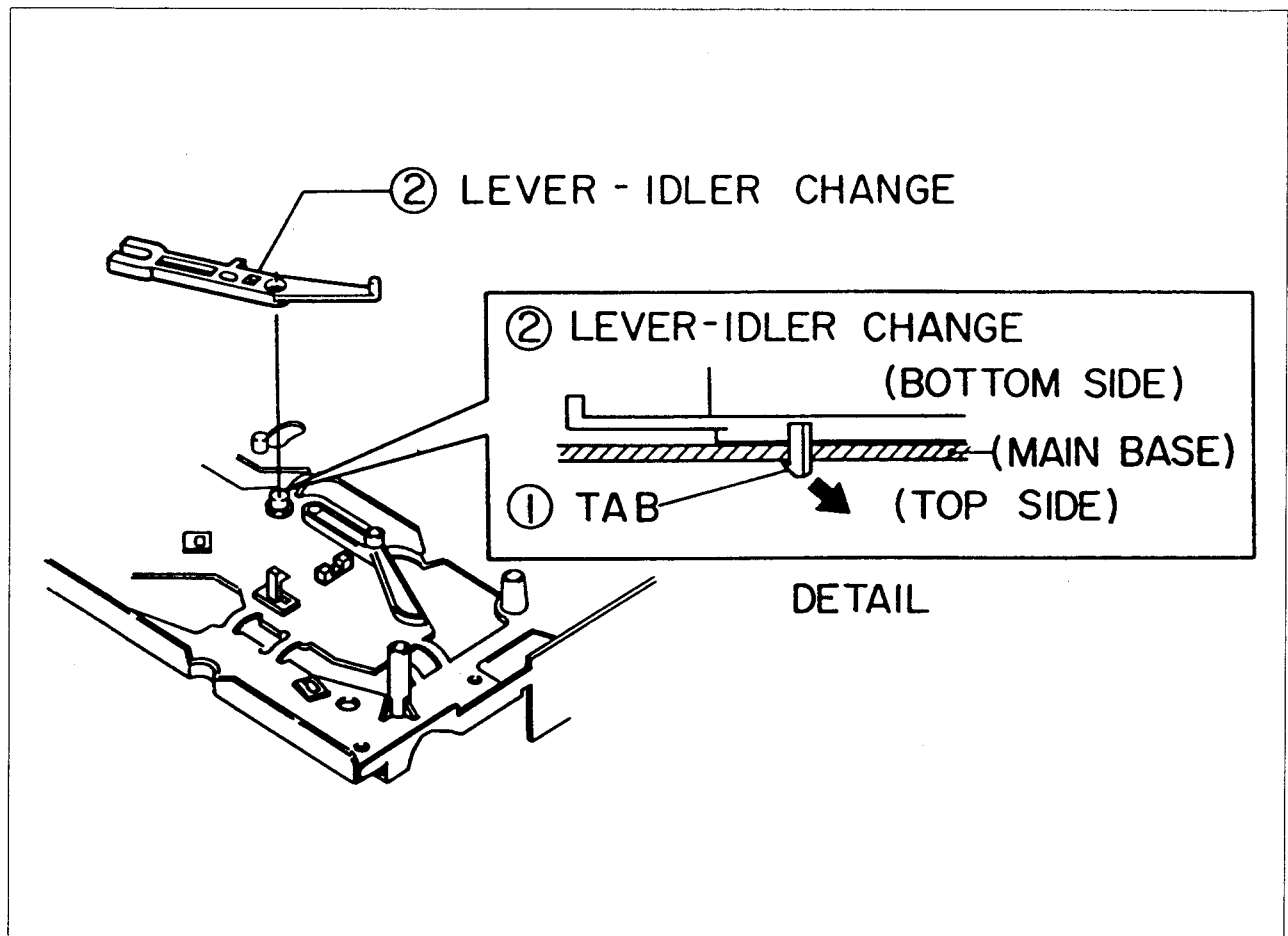


Fig. 4-47

#### 4-4-30 Gear Loading "I", "R" Assembly Removal

1. Remove the gear loading 'R' assembly ② from the slide guide roller 'T' ③ by pushing the spring loading 'R' ① in the direction of the arrow. Refer to detail drawing 'A'.
2. Remove the gear loading 'L' assembly ⑤ from the slide guide roller 'S' ⑥ by pushing the spring loading 'L' ④ in the direction of the arrow. Refer to detail drawing 'B'.
3. Lift the gear loading 'R' assembly ②.
4. Lift the gear loading 'L' assembly ⑤ by pushing the tab ⑦ of the gear loading 'L' assembly ⑤. Refer to detail drawing 'C'.

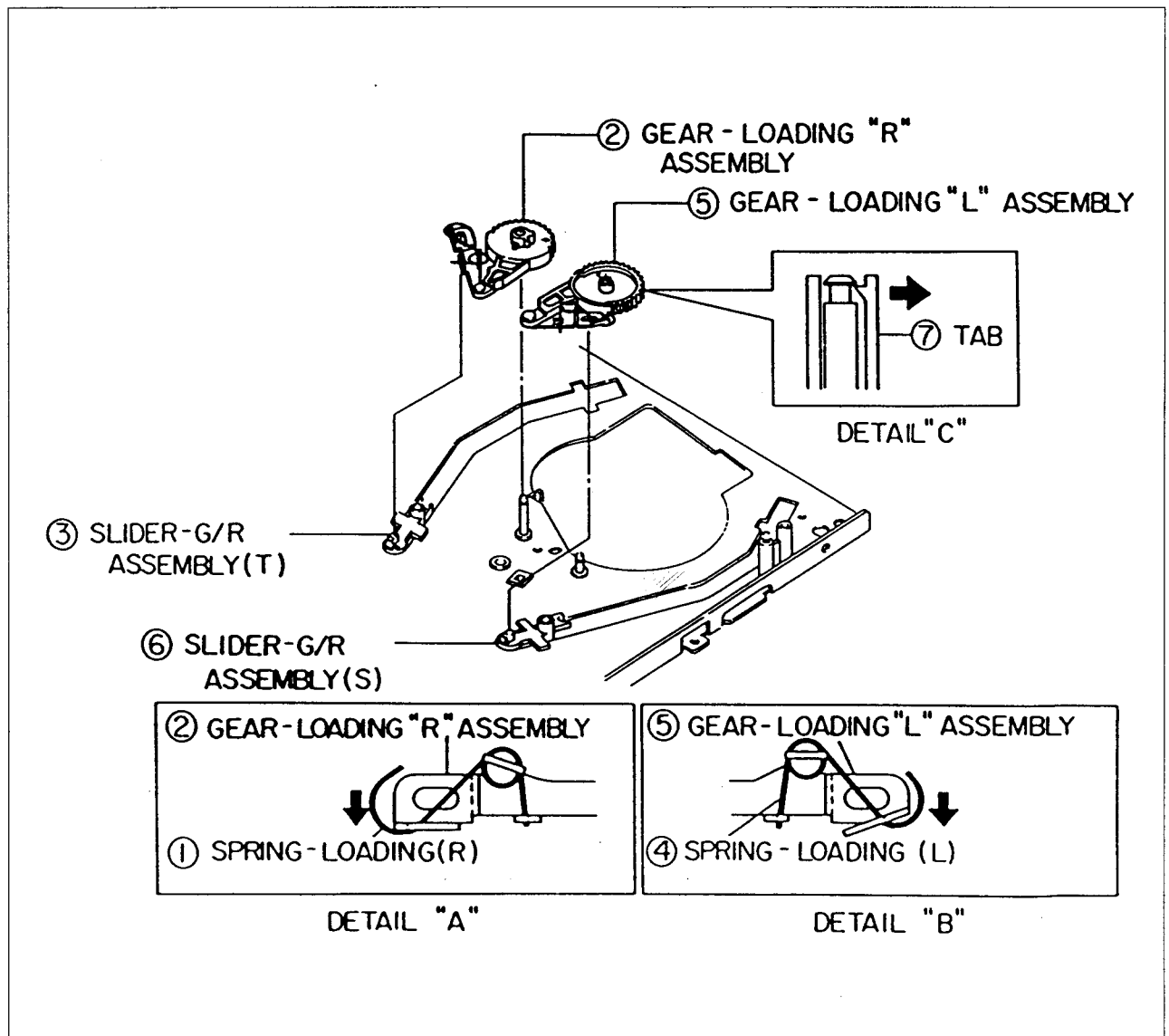


Fig. 4-48

#### 4-4-31 Assembly Gear Loading "L", "R" Assembly

1. When reinstalling, be sure to align the 2 arrows as shown in the figure. Refer to timing point.

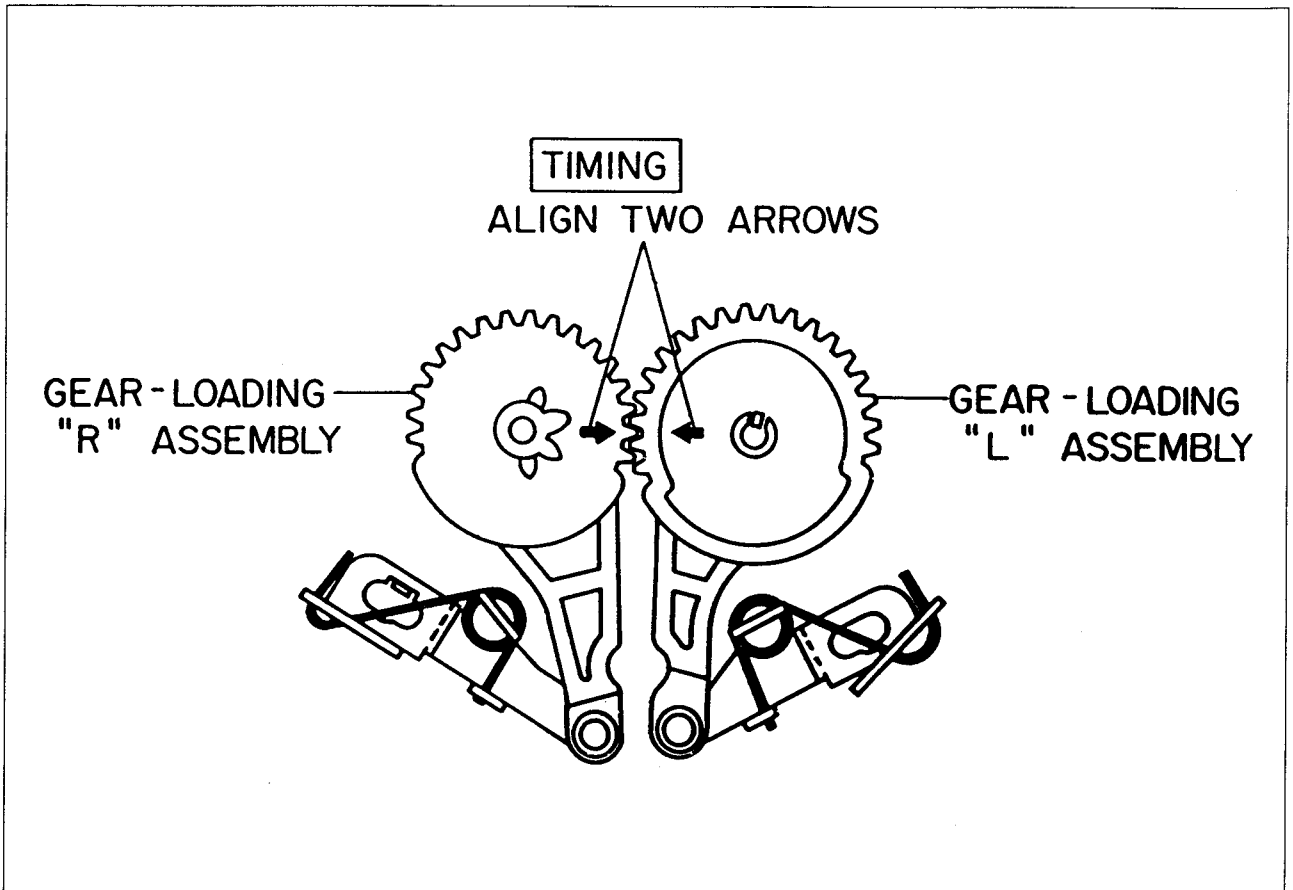


Fig. 4-49

#### 4-4-32 Slide Pinch Removal

1. Push the tab ① in the direction of arrow 'A'.  
Refer to detail drawing.
2. Lift the slide pinch ② in the direction of arrow 'B'.

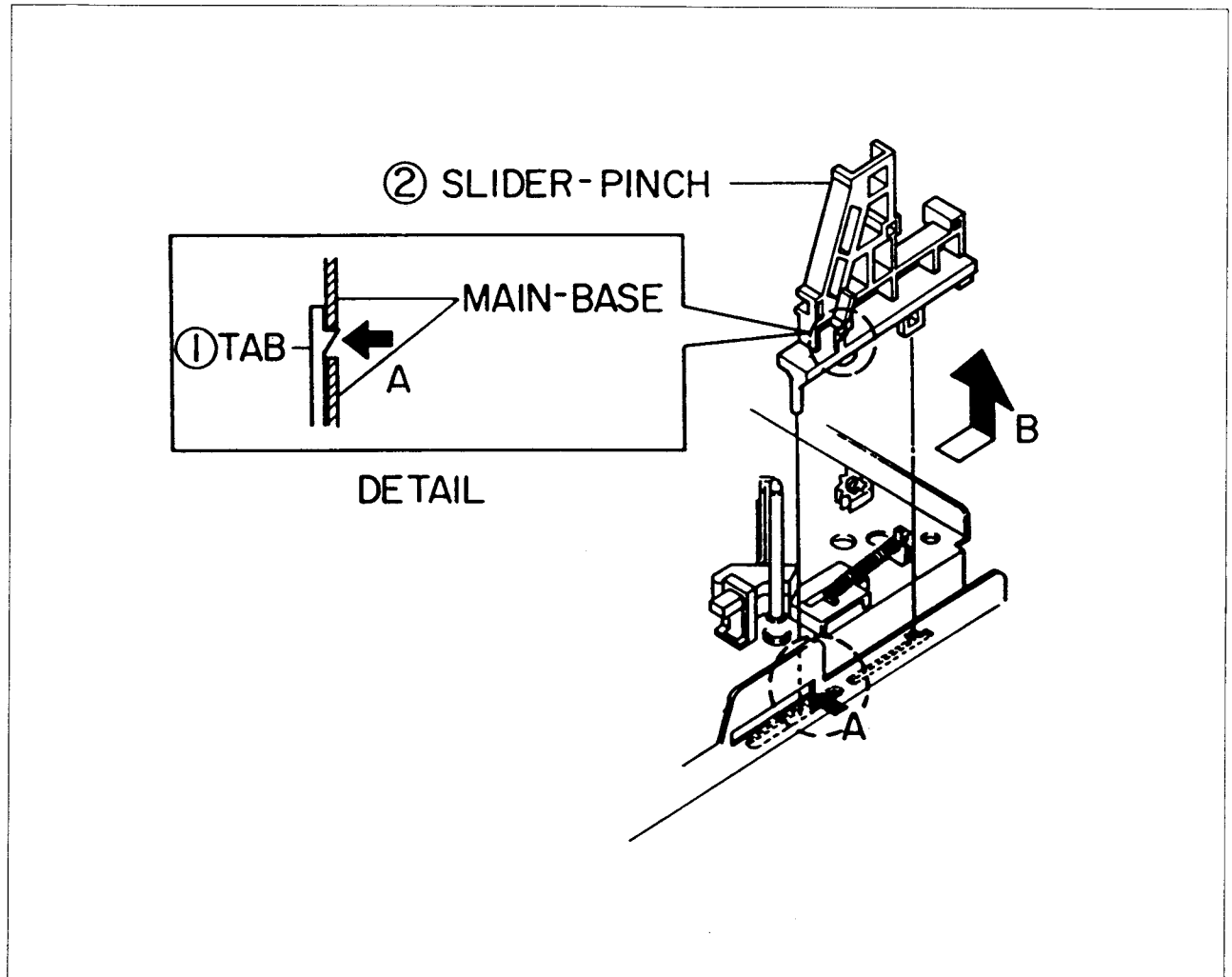


Fig. 4-50

#### 4-4-33 Slide Push Removal

1. Remove the spring slide push ①.
2. Push the slide push ② in the direction of arrow 'A'.
3. Lift the slide push ② by pushing the tab ③ in the direction of arrow 'B'. Refer to detail drawing.

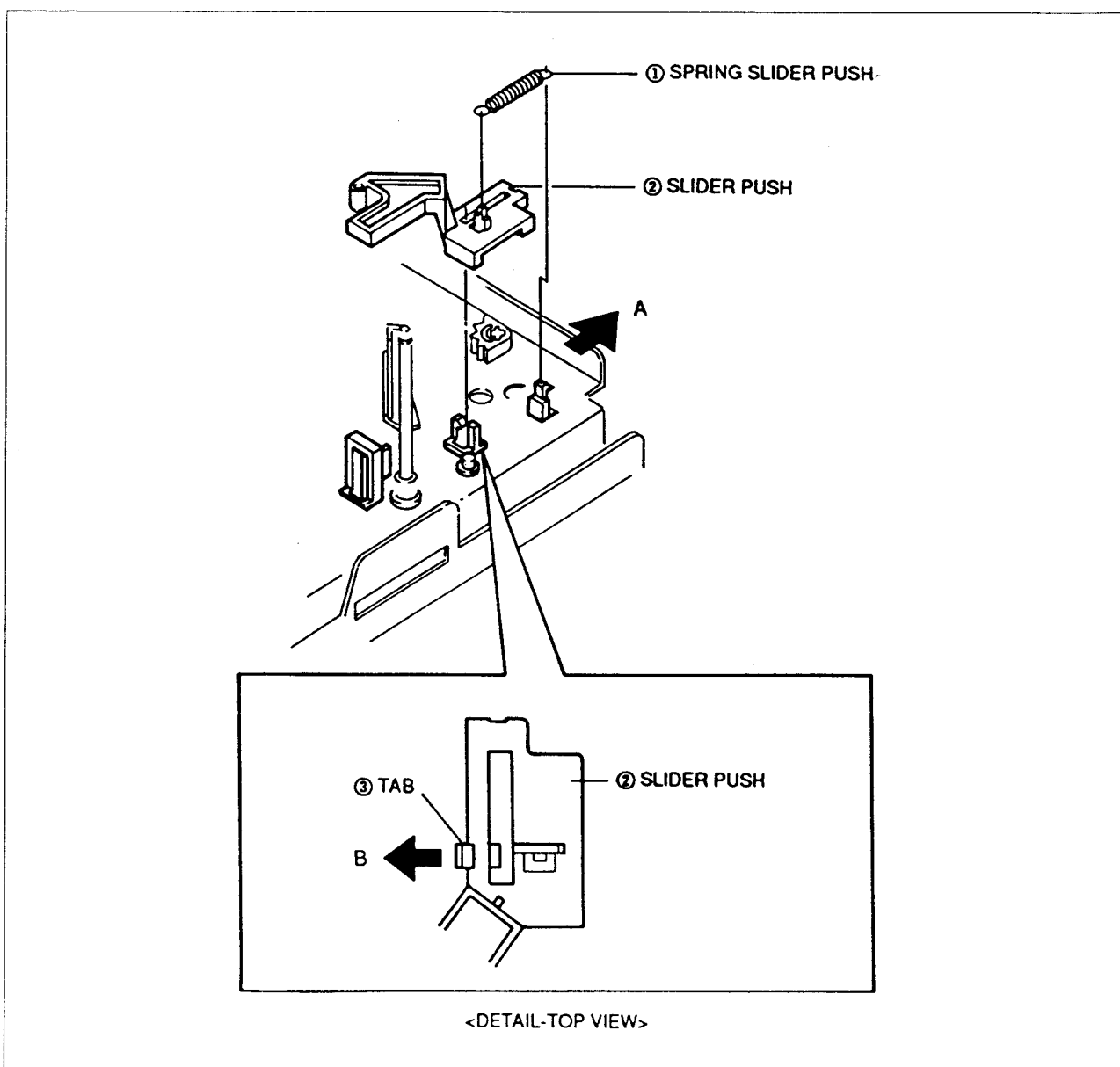


Fig. 4-51

#### 4-4-34 Prism LED Removal

1. Release the tab ① in the direction of arrow.  
Refer to detail drawing.
2. Lift the prism LED ②.

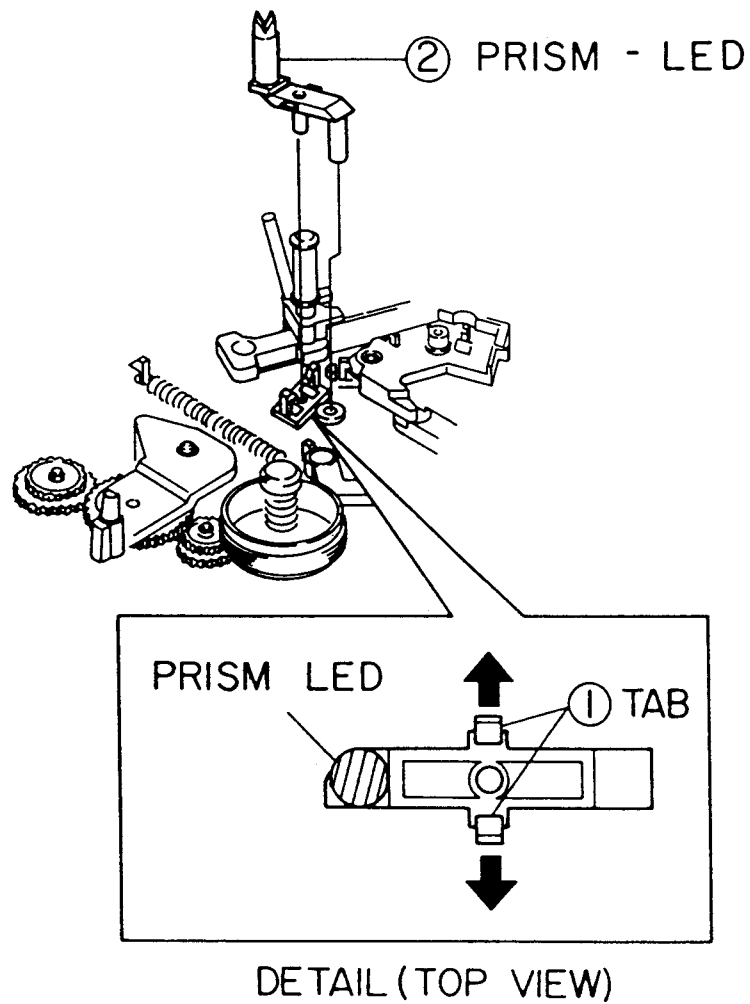


Fig. 4-52

#### 4-4-35 Lever Record Switch Removal

1. Remove the spring record switch ①.
2. Release the tab ② in the direction of the arrow.  
Refer to detail drawing.
3. Lift the lever record switch ③.

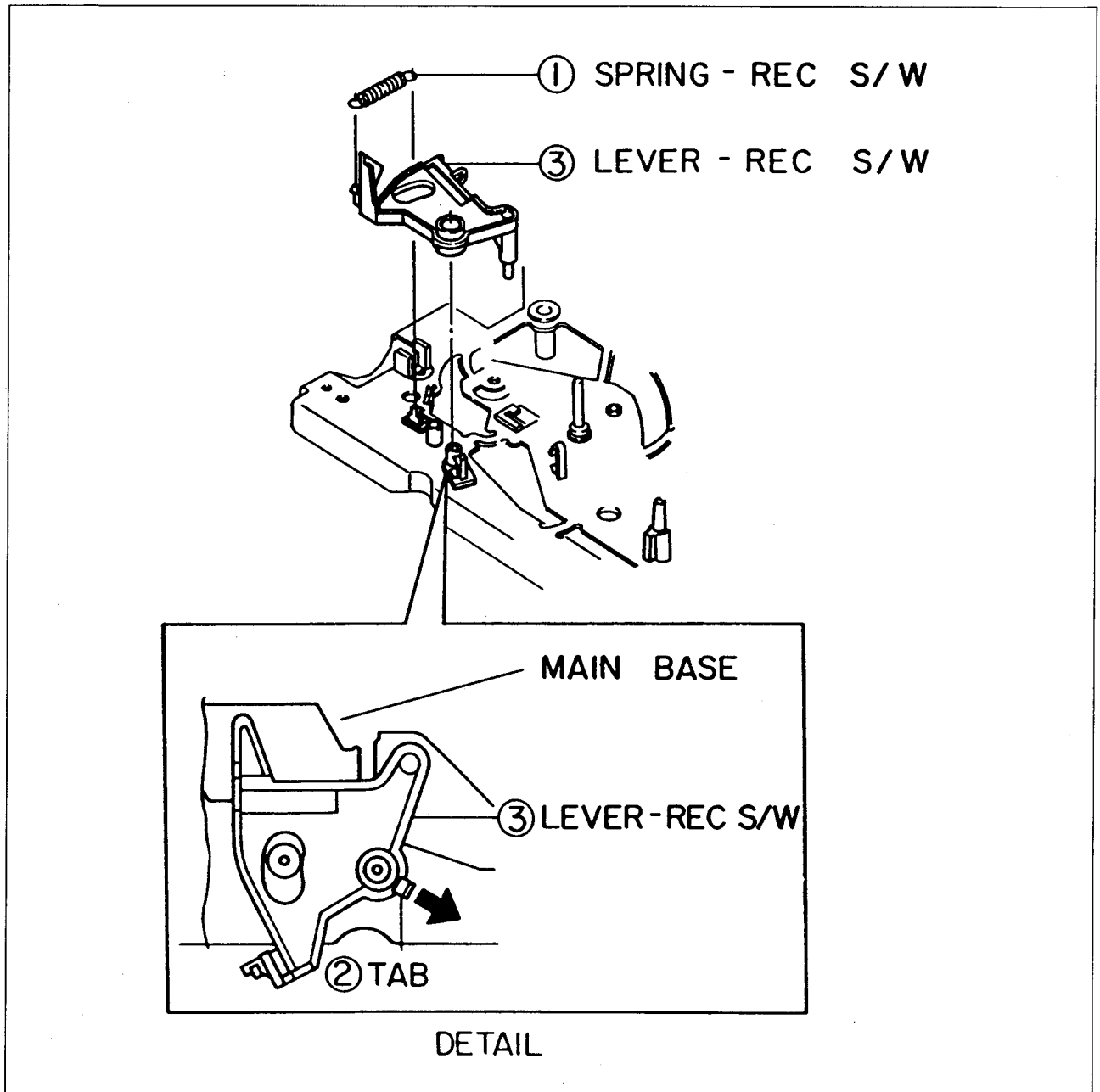


Fig. 4-53

#### 4-4-36 Full Erase Head Removal

1. Remove the 1 screw ①.
2. Lift the magnet F/E head ②.

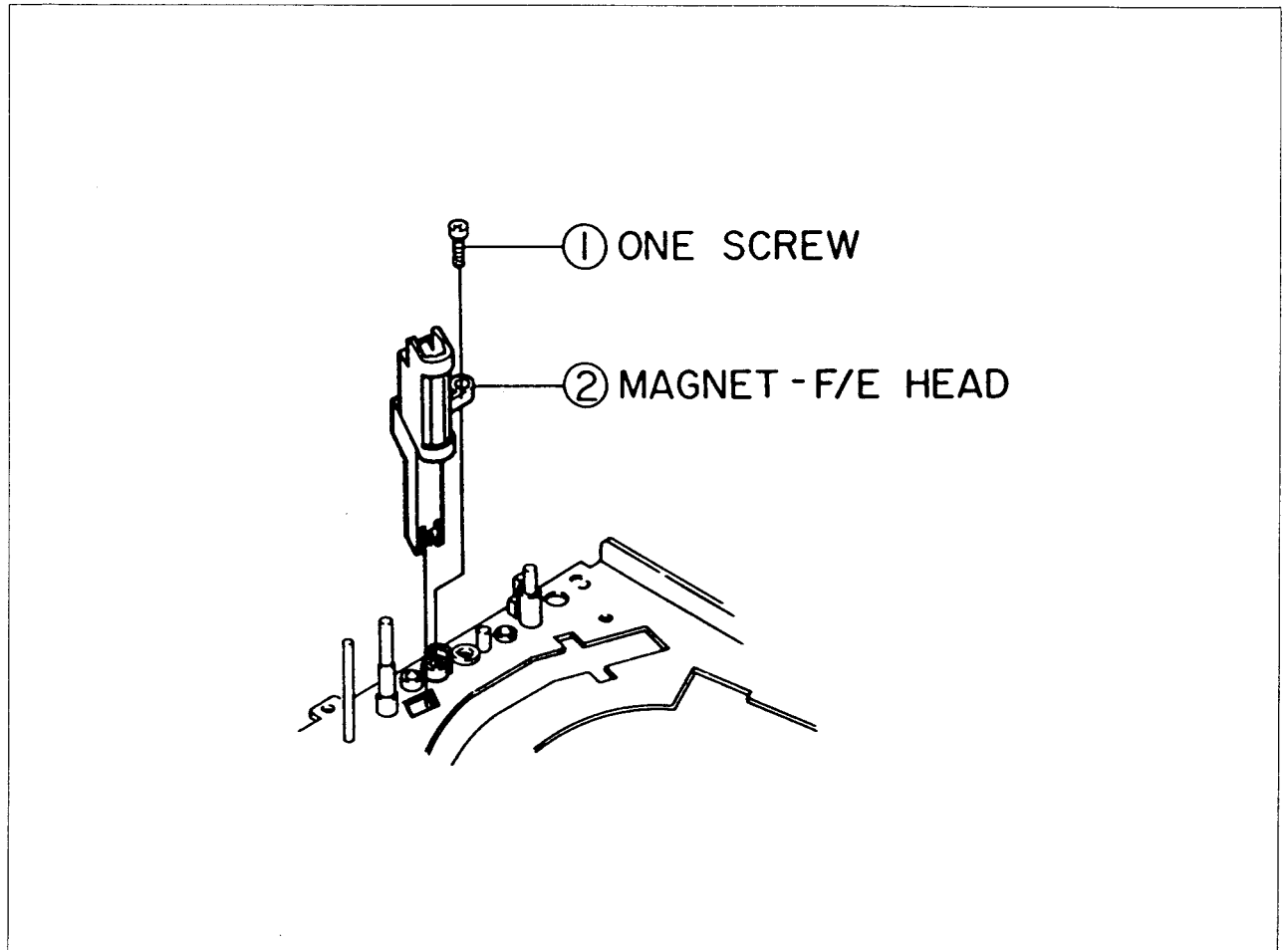


Fig. 4-54



#### 4-4-37 ACE Head Removal and Reassembly

1. Release the tab ① holding the ACE head (toward the arrows). Refer to detail drawing 'A'.
2. Remove 1 screw ②.
3. Lift the magnet ACE head assembly ③.
4. Assembly: When reinstalling, be sure to align the 3 teeth of x-Position adjustment gear with the 2 slot of ACE head base.
5. Note: When adjusting the X-Position adjustment gear using (+) driver, do not use excessive force during the adjustment.

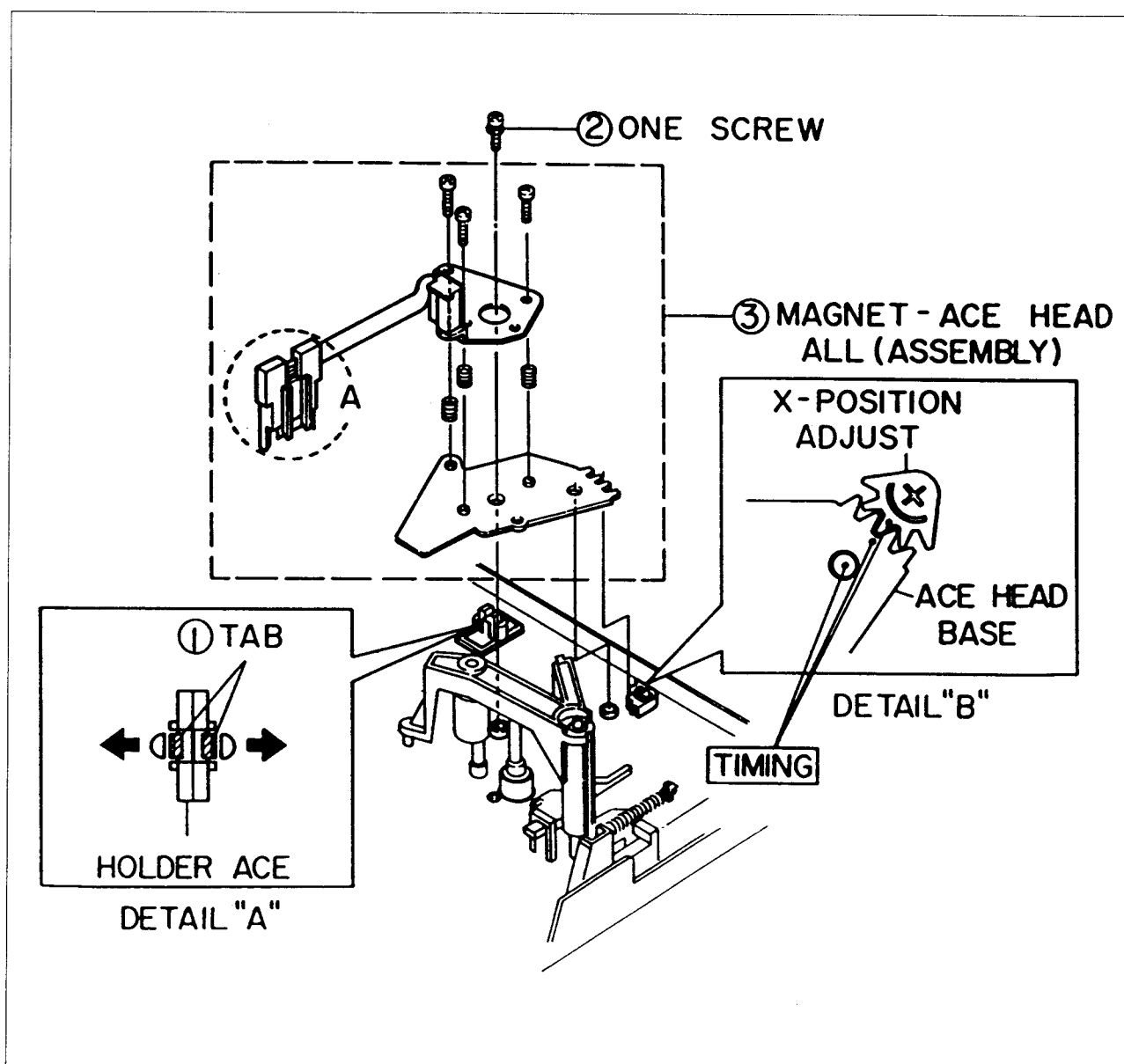


Fig. 4-55

#### 4-4-38 Slide Guide Roller "S", "T" Assembly Removal

1. Remove the cylinder assembly from the main base.  
Refer to Fig. 4-12 and 4-14.
2. Remove the slide 'S', 'T' from the gear loading 'L', 'R' assembly. Refer to Fig. 4-51.
3. Move the guide roller 'S', 'T' assembly to slot and then lift it to remove. Refer to arrow.

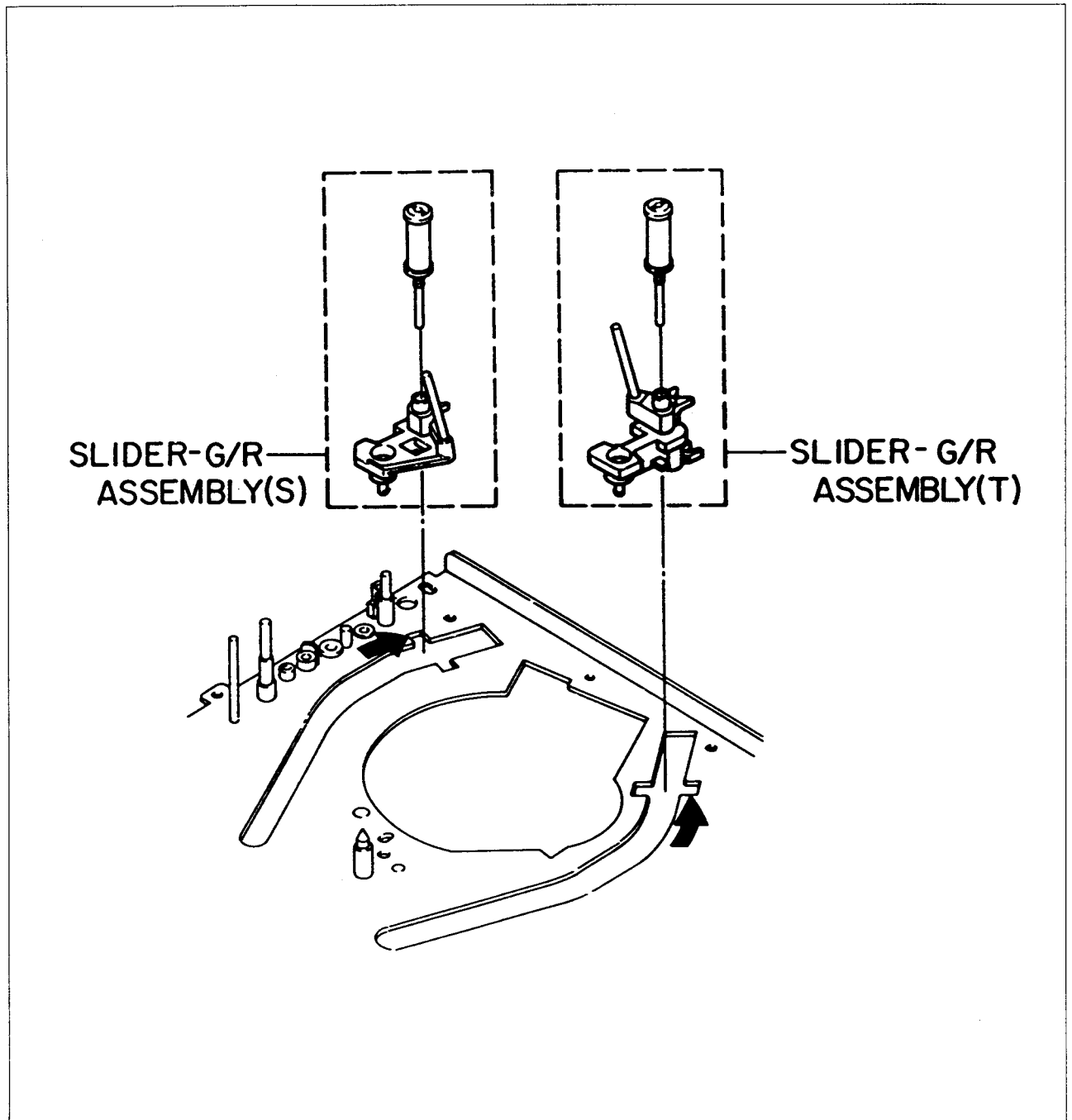


Fig. 4-56

**4-4-39****Slide Guide Roller "S", "T" Assembly  
(all parts except cylinder assembly removed)**

1. Push the 4 lever locks ① of the housing assembly simultaneously. Refer to Fig. 60.
2. Push the holder cassette assembly ③ toward arrow 'B' while turning the gear master ② toward arrow 'A'.
3. Load the gear loading L, R assemblies ④, ⑤ to the middle position of guide rail by turning the gear master ② toward arrow 'A'. Refer to Fig 60, 61.
4. Turn the gear master ② toward arrow 'A' (Eject mode).

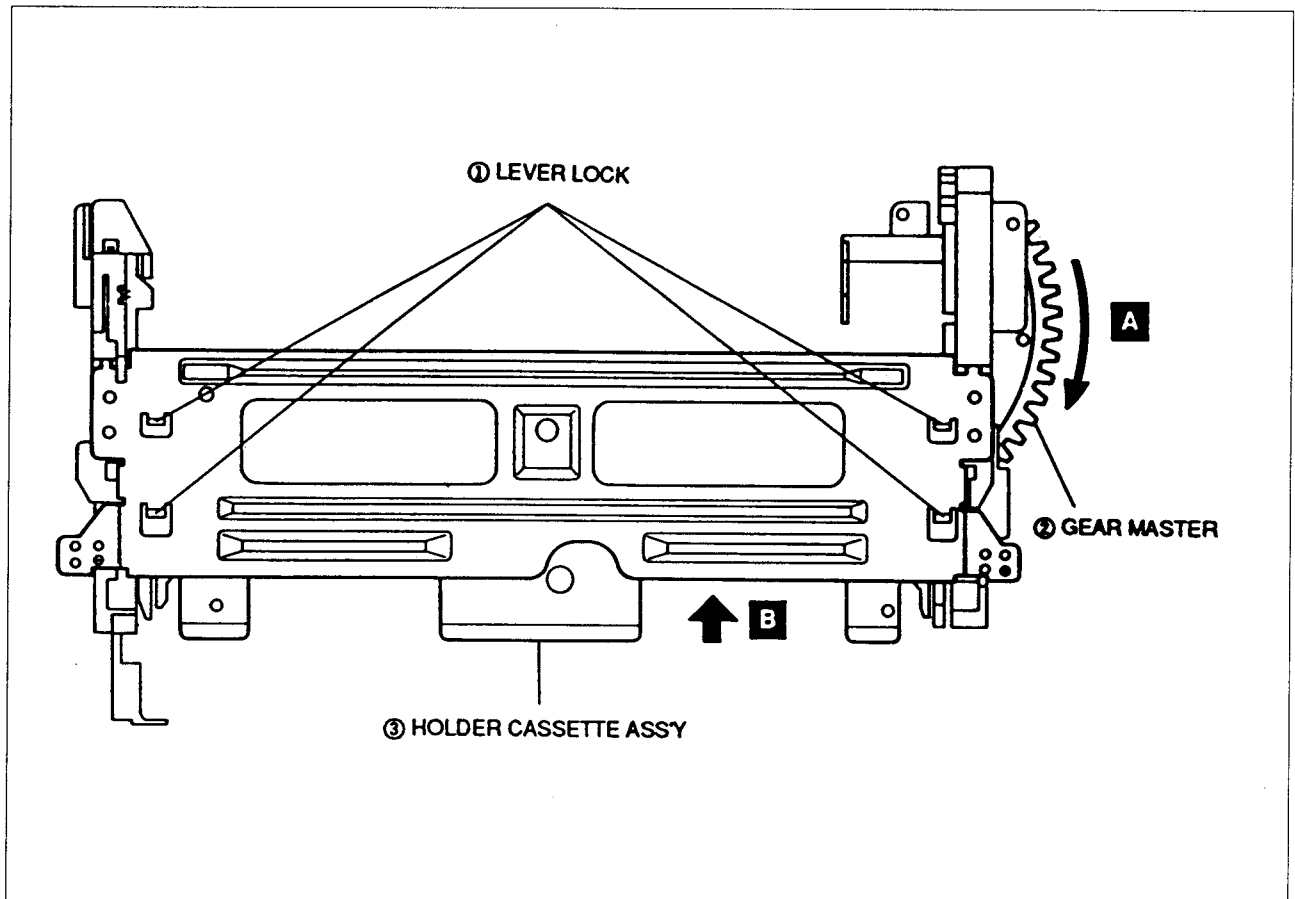


Fig. 4-57

**4-4-39 Slide Guide Roller "S", "T" Assembly (Continued):**  
**All parts except cylinder assembly removed.**

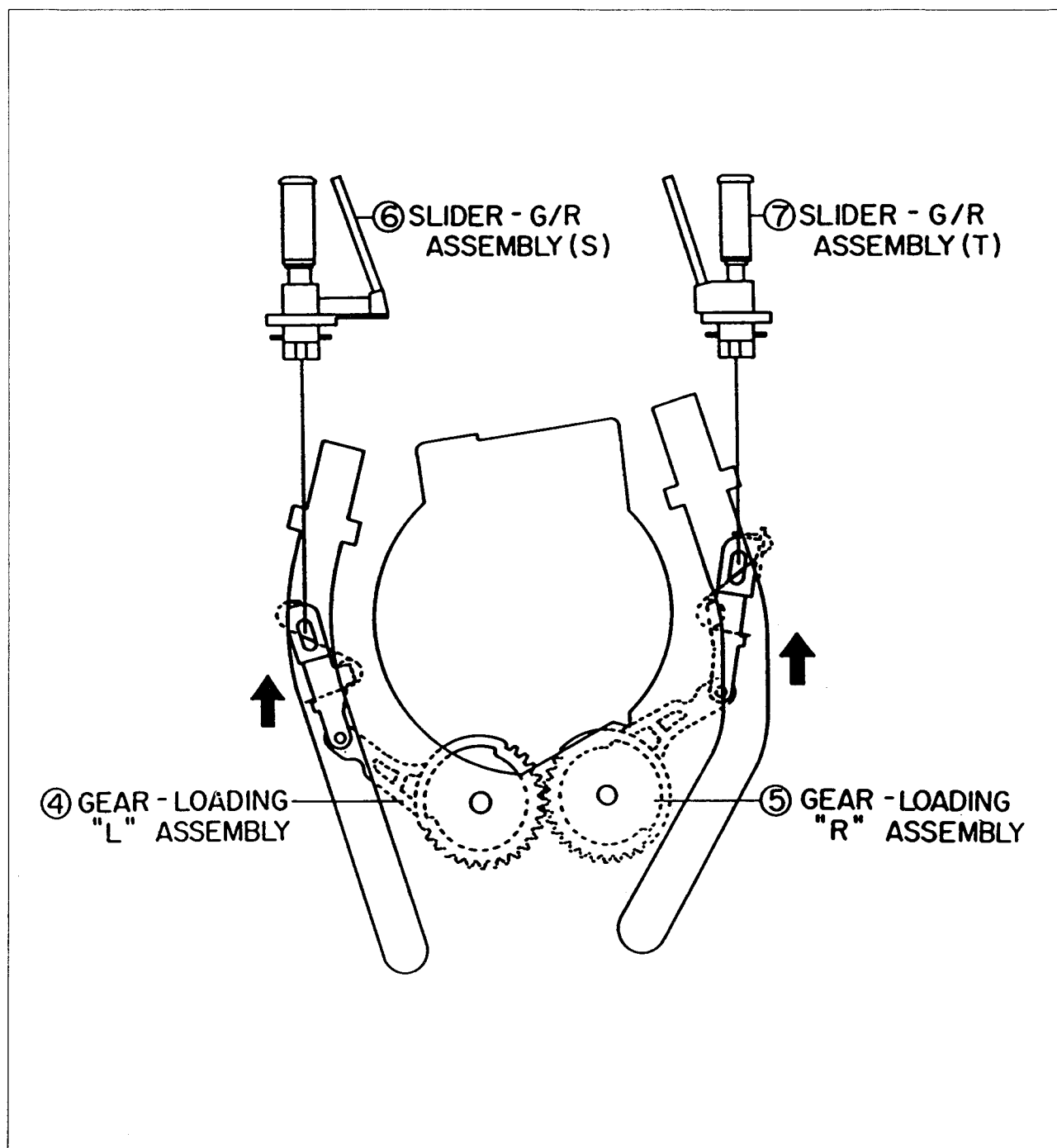


Fig. 4-58

## 4-5 Cleaning and Lubrication

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### 4-5-1 Cleaning Tape Mechanism

Periodic cleaning is necessary. Use patch and solvent to clean the following:

1. Capstan shaft
2. All tape guide posts
3. Clutch pulley
4. Pinch roller
5. Belt capstan
6. Capstan motor pulley

### 4-5-2 Cleaning of Rotating and Stationary Heads

To clean the video , full-erase head and audio/control (A/C) heads, a cleaning kit and solvent are recommended.

When cleaning the video heads, move the cleaning stick in the direction of head rotation (wiping in a vertical direction may damage the heads).

Press a chamois cloth which has been dipped in cleaning fluid lightly against the rotating cylinder assembly. Clean slowly by rotating the upper cylinder assembly by hand.

### 4-5-3 Lubrication of Tape Mechanism

The tape transport mechanism is properly lubricated at the factory. For normal usage, and with average environmental conditions, additional lubrication should not be required during the first year of operation.

Depending on the frequency of use and environmental conditions, periodic lubrication may be required. When lubricating, remove the old lubricant first, then sparingly apply new lubricant. Excessive lubricant may be transferred to other assemblies causing malfunction.

Use grease on the following parts every 1,000 hours of operation. See exploded view for locations:

1. Between base pole assembly (L,R) and main base
2. Gear loading (L,R)
3. Slide main
4. Lever shift
5. Gear master
6. Lever slider pinch.
7. Pinch roller
8. Slide pinch
9. Base cylinder

Oil may be required for the following parts after 1,000 hours of operation. See exploded view for locations:

Main base:

1. Arm tension molding
2. Shaft reel disk L,R
3. Shaft gear relay S,T
4. Shaft idler
5. Shaft clutch

Other parts which are not listed above do not require lubrication, except when parts are replaced. Use approximate grease or oil as indicated on the exploded view.

## 4-6 Tape Transport Adjustments

### 4-6-1 Tape Transport Adjustment Locations

The tape transport system was adjusted precisely in the factory, so alignment is not necessary except for: Noises observed on the screen, tape damage, or parts replacement in the tape transport system.

The Lower flange height of the tape guide is used as the basic reference for the transport adjustment. To ensure correct height of the tape guide, do not apply excessive force onto the main base.

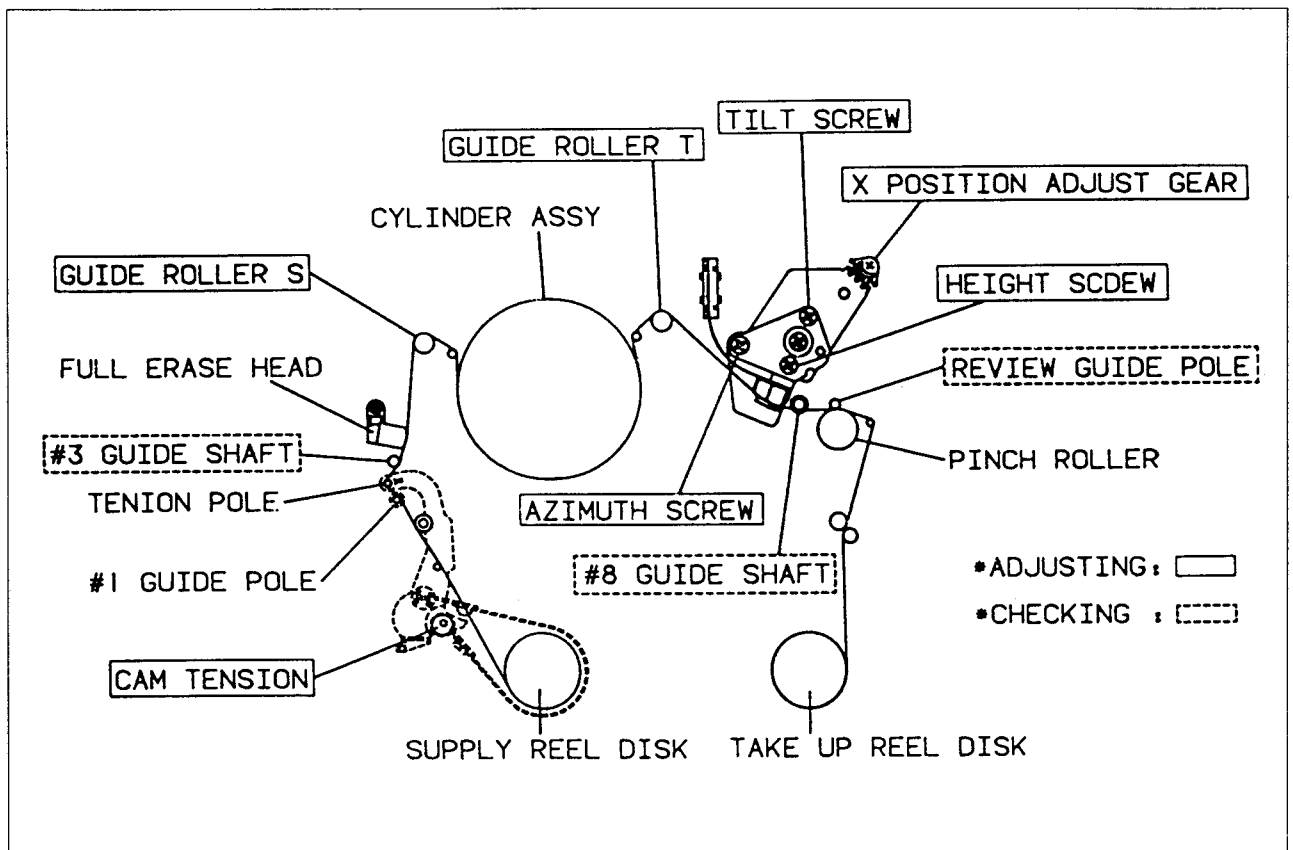


Fig. 4-59

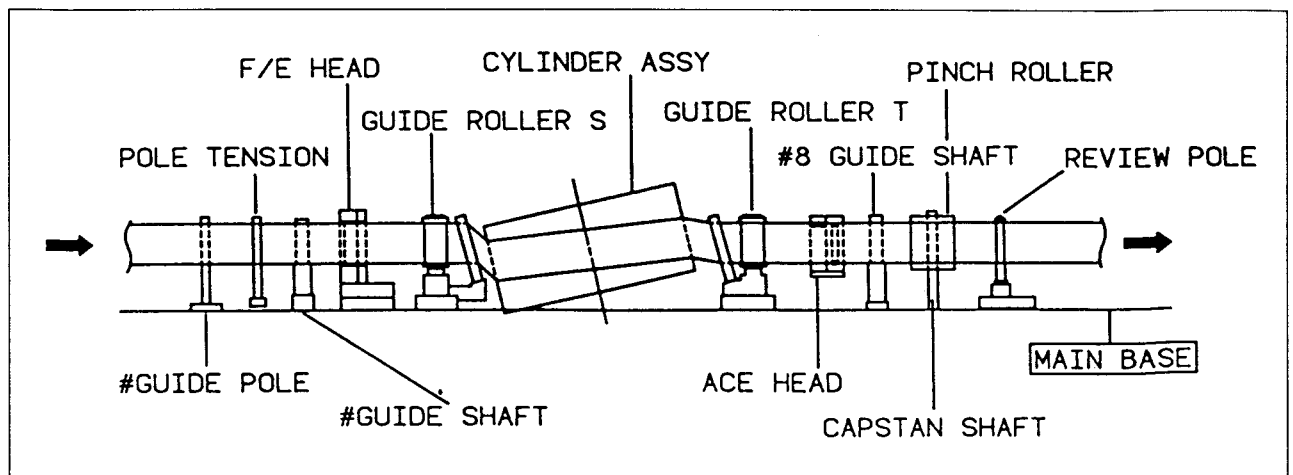


Fig. 4-60

## 4-6-2 Tape Transport Adjustments

### 4-6-2 (a) PREADJUSTMENT

1. When parts are replaced, the tape path may be changed. Refer to the procedures for the tape transport system. Run a T-120 (E-180) tape and make sure that excessive tape wrinkle does not occur at any of the tape guides.
2. If tape wrinkle occurs at the S, T-guide rollers, turn the S,T-guide rollers until the wrinkle disappears.
3. If tape wrinkle is still observed at the tape guide, perform the tilt adjustment of the A/C head.
4. Test Points:  
Envelope  
Audio Out  
H'D SW- Trigger  
CTL Pulse

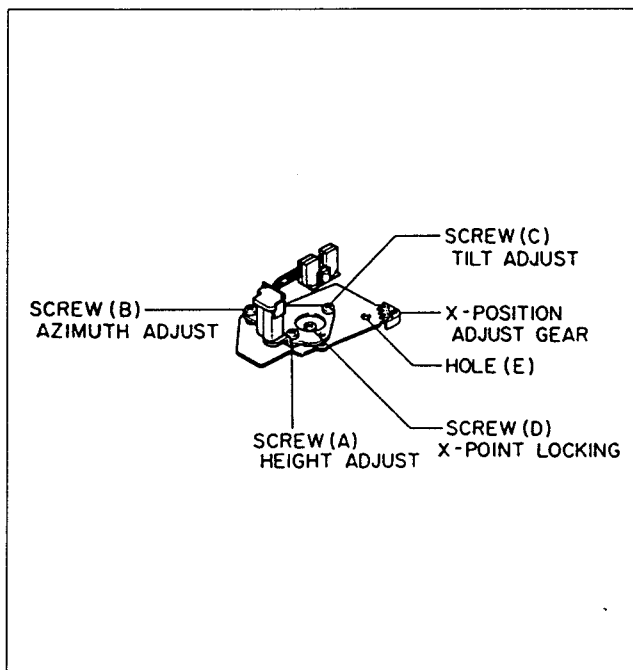


Fig. 4-61 Location of A/C Head Adjustment Screw

### 4-6-2 (b) AC HEAD HEIGHT ADJUSTMENT

1. Run the alignment tape SR2-1 in Playback Mode.
2. Using a dental mirror, observe the surface of the audio head.
3. Turn screws (A), (B), (C) clockwise or counterclockwise until the gap of the lower tape edge and the lower edge of the control head is about 0.25mm. (See Figure 4-59 and 4-60 for locations of Tape Transport adjustments.)

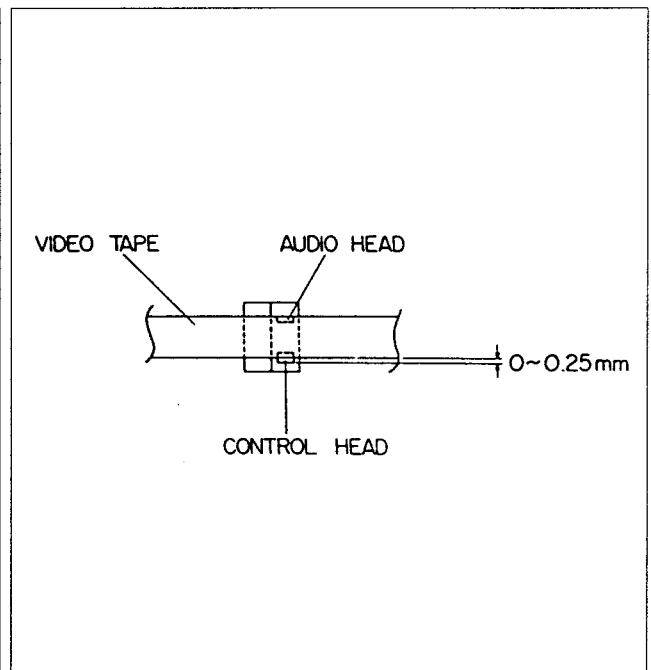


Fig.4-62 A/C Head Height Adjustment

#### 4-6-2 (c) A/C HEAD TILT ADJUSTMENT

1. Play back a T-160 (E-240) tape and observe the position of the tape at the lower flange of the tape guide.
2. Confirm that there is no curl or wrinkle at the lower flange of the tape guide (see figure).
3. If a curl or wrinkle of the tape occurs, turn screw "C" slightly clockwise until the wrinkle disappears (see figure).
4. Reconfirm the A/C head height.

#### 4-6-2 (d) AUDIO AZIMUTH ADJUSTMENT

1. Play back the alignment tape (mono scope) (NTSC: 7 kHz; PAL: 6 kHz).
2. Connect Ch1 scope probe to Audio Out on the Main PCB.
3. Adjust screw (B) for maximum audio level (See Figure 4-61).

#### 4-6-2 (e) A/C HEAD POSITION (X-POINT) ADJUSTMENT (PAL SYSTEM ONLY)

1. On the remote control, press the "1" button and "Input" simultaneously. This will automatically adjust the tracking center.
2. Play back the mono scope alignment tape.
3. Connect Ch1 scope probe to "CTRL" and Ch-2 scope probe to "H'D SW". Trigger on the head-switching pulse.
4. Set the tracking preset to 14.5 msec., and 2H'D to 0.5 msec. Use the "Fine" tracking buttons  $\blacktriangle/\blacktriangledown$  on the remote control.
5. Connect Ch1 scope probe to "ENV"; connect Ch-2 to "H'D SW" and trigger on Ch-1.
6. Insert the adjusting driver (+) into the X-position adjusting gear. Adjust the driver in either direction for maximum envelope waveform.
7. Note: Since the adjusting gear unit may be damaged, do not adjust the X-point by using force. After turning the X-Point adjusting screw (D) slightly counterclockwise, perform the adjustment and then tighten the screw.

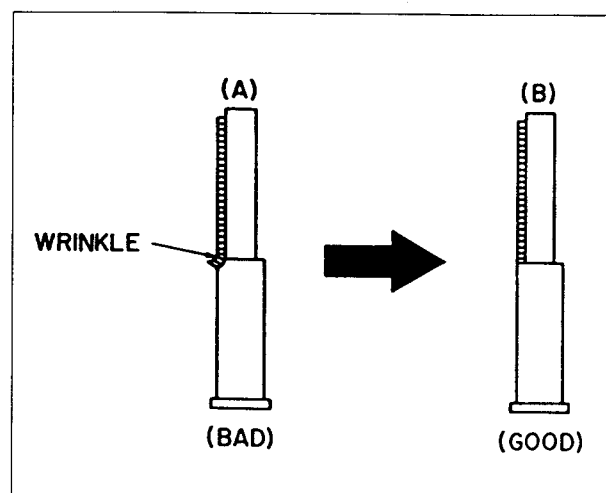


Fig. 4-63 Tape Guide Check

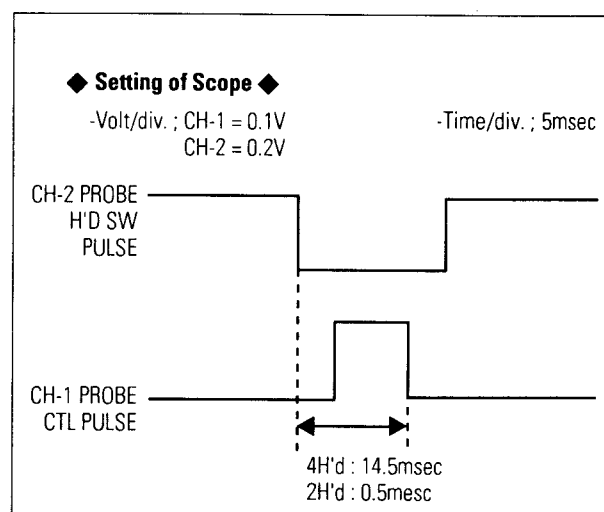


Fig. 4-64 Tracking Preset Adjustment

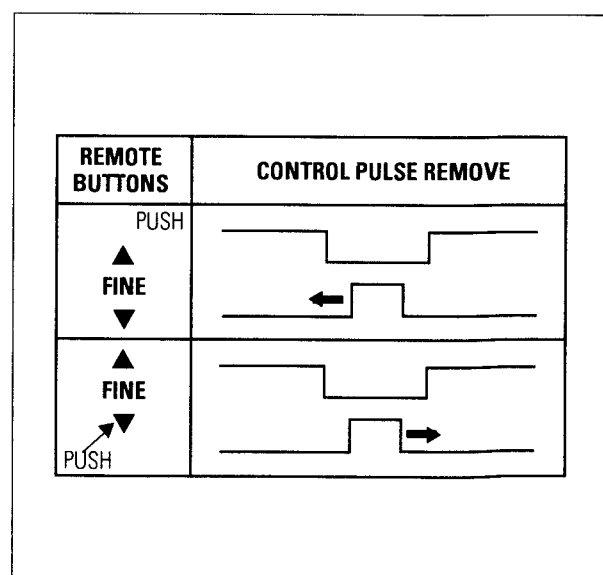


Fig. 4-65 Control Pulse Adjustment



#### 4-6-2 (f) A/C HEAD POSITION (X-POINT), ADJUSTMENT (NTSC SYSTEM ONLY)

1. Play back the mono scope alignment tape.
2. Connect Ch1 scope probe to "CTRL" and Ch-2 scope probe to "H'D SW".  
Trigger on the head-switching pulse.
3. Set the tracking preset to 7 msec using the "Fine" tracking buttons ▲/▼ on the remote control.
4. Connect Ch1 scope probe to "ENV"; connect Ch-2 to "H'D SW" and trigger on Ch-1.
5. Insert the adjusting driver (+) into the X-position adjusting gear. Adjust the driver in either direction for maximum envelope waveform.
6. Note: Since the adjusting gear unit may be damaged, do not adjust the X-point by using force. After turning the X-Point adjusting screw (D) slightly counter-clockwise, perform the adjustment and then tighten the screw.

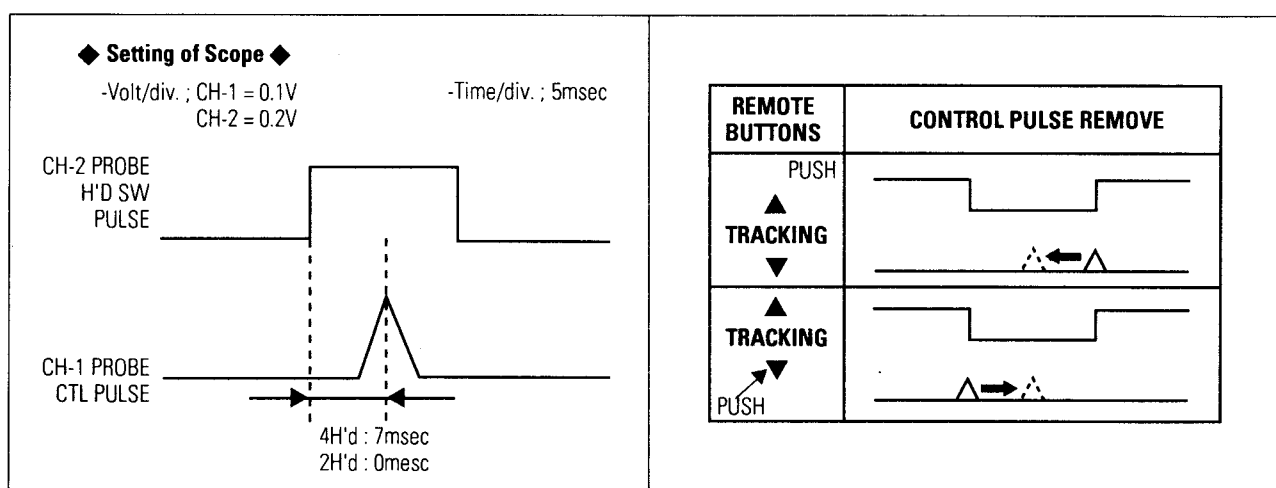


Fig. 4-66 Tracking Preset and Control Adjustments  
Only for Models: SV-20U/30U/40U/60U/100U  
VR3705/VR3805/5705/5805/8705

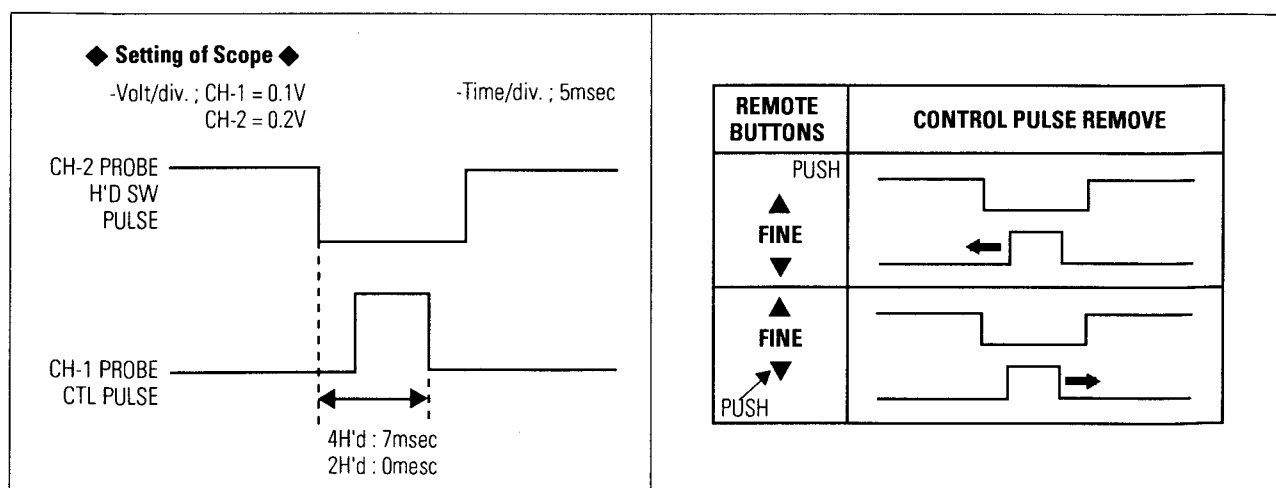



Fig. 4-67 Tracking Preset and Control Pulse Adjustments  
Only for Models: SV-70U/90U/120U/140U/160U  
VR5805/VR5855/5905/8905

### 4-6-3 Linearity Adjustment (S, T-Guide Rollers)

1. Test Points:

H'D SW-Trigger  
Envelope  
Test Tape: SR1-2

2. Play back the mono scope alignment tape (SP mode).
3. Observe the video envelope signal; trigger the oscilloscope on the video switching pulse.
4. Make sure that the video envelope meets the specifications of Fig. 4-68 (especially for minimum values).
5. If Section A in Fig. 4-68 does not meet the specification, adjust the S-guide Roller up or down.
6. If Section B in Fig. 4-68 does not meet the specification, adjust the T-guide Roller up or down.
7. Slightly loosen the set screw at the lower part the S, T-guide rollers (with a Hex Wrench-0.9mm), so that the guide roller can be adjusted with reasonable tightness (Fig. 4-69).
8. Play back the mono scope alignment tape.
9. Connect Ch1 on the oscilloscope to the envelope, and Ch2 to the H'D SW PULSE for triggering (located on the same PCB).
- 10 Turn the guide-roller heads with a flat head screw driver  to obtain a flat video RF envelope as shown in Fig 4-69. After completing the adjustment, tighten the set

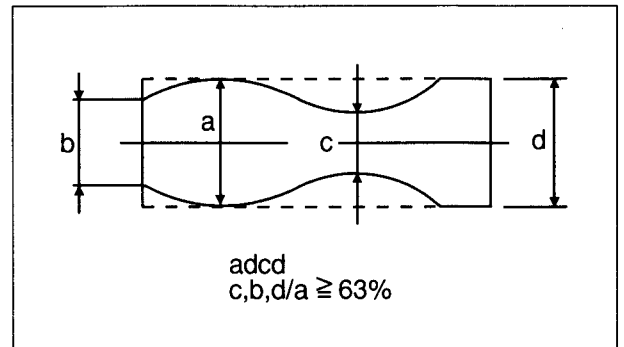


Fig. 4-68 Envelope Waveform

NOTE:

a = Maximum output of the video RF envelope.

b = Minimum output of the video RF envelope at the entrance side.

c = Minimum output of the video RF envelope at the center point.

d = Maximum output of the video RF envelope at the exit side.

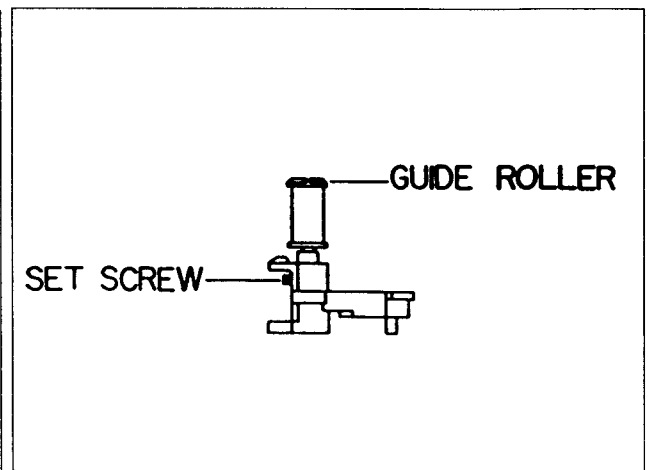
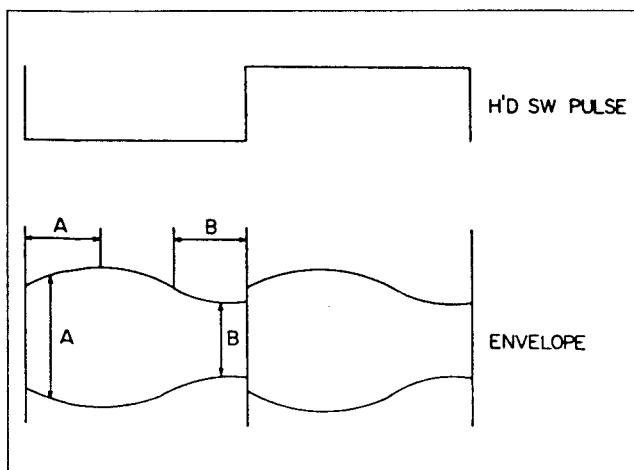


Fig. 4-69 Adjustment Points

#### 4-6-3 S, T-Guide Rollers Adjustment (Continued)

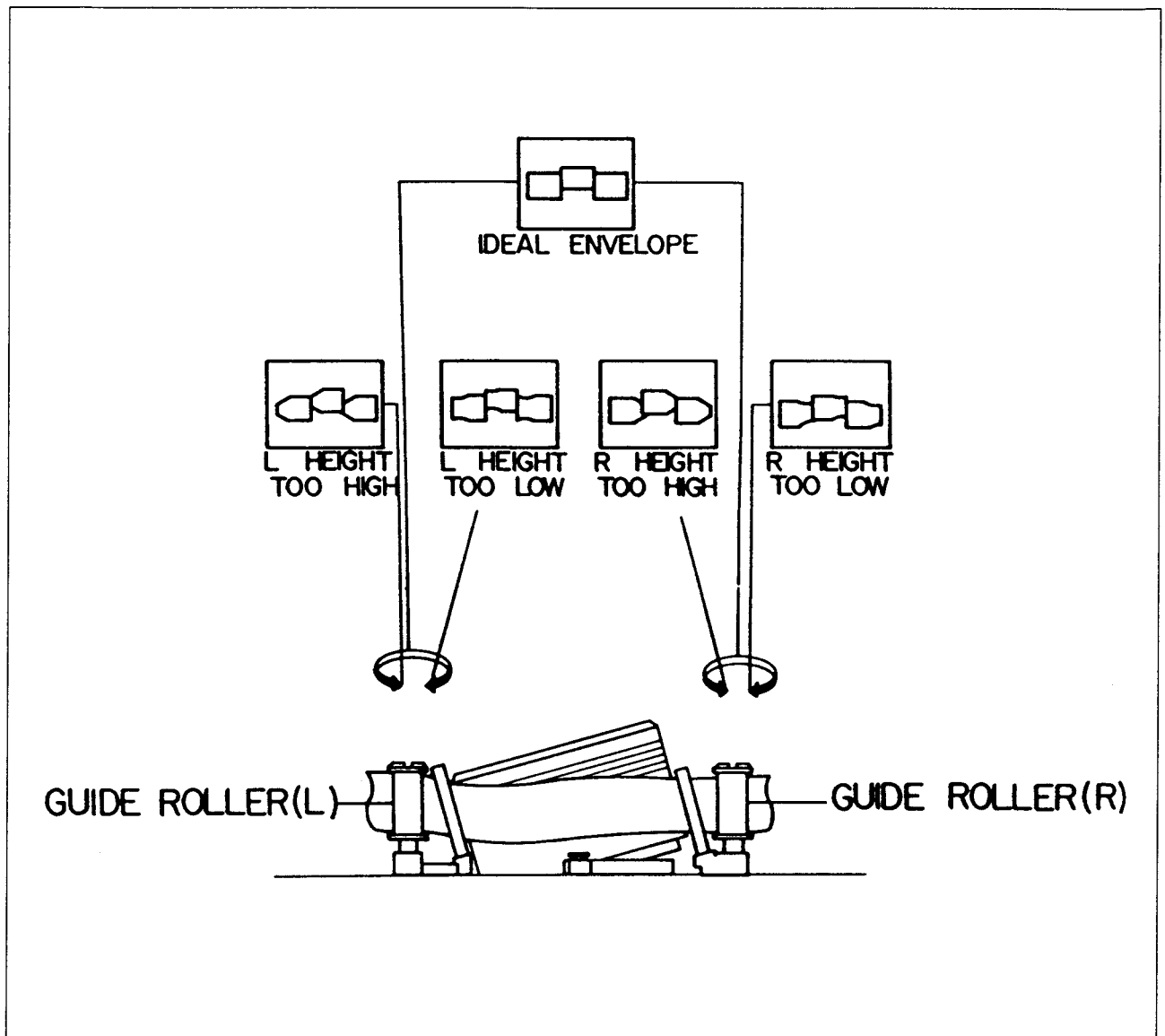


Fig. 4-70 S, T-Guide Roller Height Adjustments

#### 4-6-4 Check Transitional Operation from RPS to Play

1. Check the transition from RPS to play mode using a pre-recorded SP tape. Make sure the entrance side of envelope comes to an appropriate steady state within 3 seconds.
2. If the envelope waveform does not reach the specified peak-to-peak amplitude within 3 seconds, make sure there is no gap between the supply-roller lower flange and the tape. If there is a gap, readjust the supply-guide roller.
3. Change operation from RPS to Play Mode, and make sure the entrance side of envelope rises within 3 seconds.

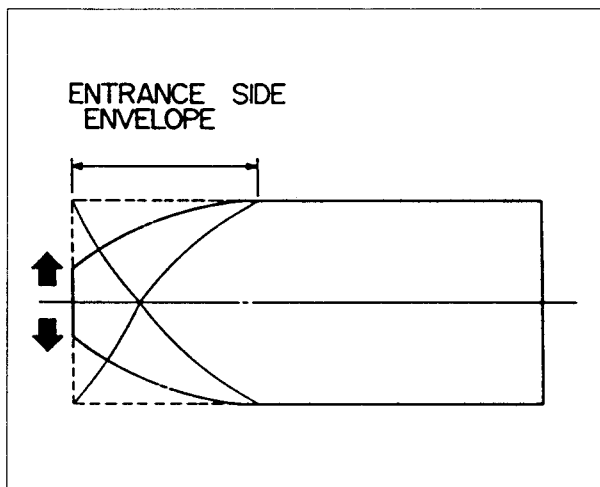


Fig. 4-71 Video envelope rising (operating mode is switched from RPS to Play)

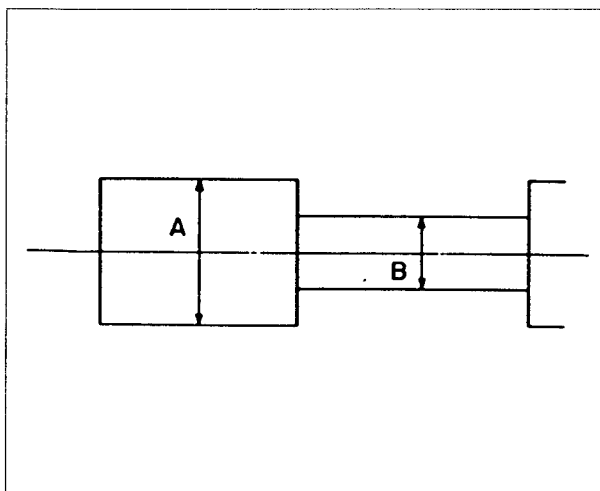


Fig. 4-72 Envelope Output and Output Level Difference

#### 4-6-5 Envelope Check

1. Make recordings on T-120 (E-120) and T-160 (E-180) tapes, and make sure the playback output envelope meets the specification shown in Fig. 4-71.
2. Play back a self recorded tape (a recording made on the unit using a T-120). The video envelope should meet the specification shown in Fig. 4-72. In SLP Mode, (A) should be the same as (B). If the head gap is wide, check the Upper Cylinder.

#### 4-6-6 Tape Wrinkle Check

1. Run the T-160 (E-240) tape in playback, FPS, RPS and the Pause Modes, and observe the tape wrinkle at each guide.
2. If excessive tape wrinkle is observed during playback, make the following adjustments:

Do a linearity adjustment if the tape wrinkle occurs at the S, T guide-rollers. Do an A/C head Assembly coarse adjustment if the tape wrinkle occurs at the tape-guide flange.

#### 4-6-7 Reel Torque

1. The rotation of the capstan motor drives the clutch assembly through the belt capstan motor.
2. Brake and shift operations in FF/REW are done by a slide lever.
3. Transmittal of accurate driving force is done by gears (clutch assembly).
4. If the measured values differ from the specifications in the following chart, replace the clutch assembly and recheck.

MODE	TORQUE (g/cm)	GAUGE
PB/REC	100 +/- 30	Cassette Torquemeter
RPS	170 +/- 30	Cassette Torquemeter
MODE	Minimum 600	Torque Gauge

#### 4-6-8 Location of Tension Pole and Back Tension Adjustment

1. Remove the housing assembly and set the deck to 'PLAY' mode
2. Adjust the cam tension to 0 ~ -0.5 mm from the center of the supply roller.
3. The back tension meter should be used to check back tension. Specification: 41 ~ 51 g.cm,  
(PAL: 40 ~ 47 g.cm)
4. Counterclockwise: TORQUE UP  
Clockwise: TORQUE DOWN

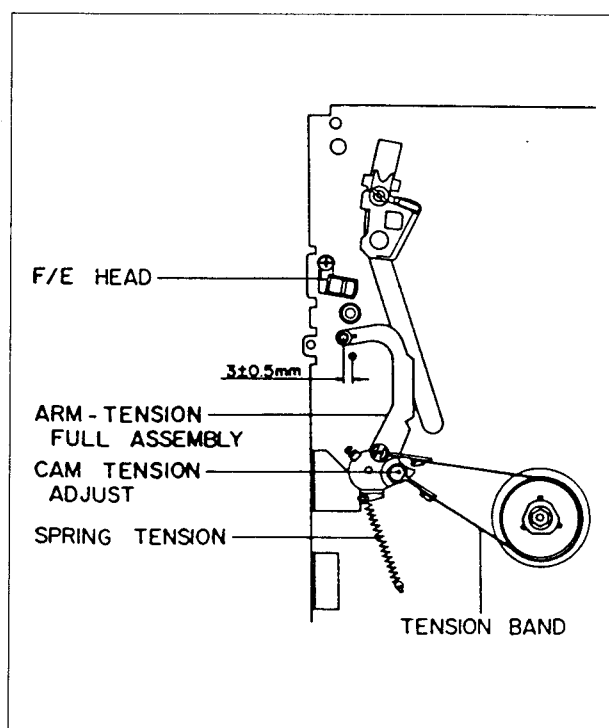


Fig. 4-73

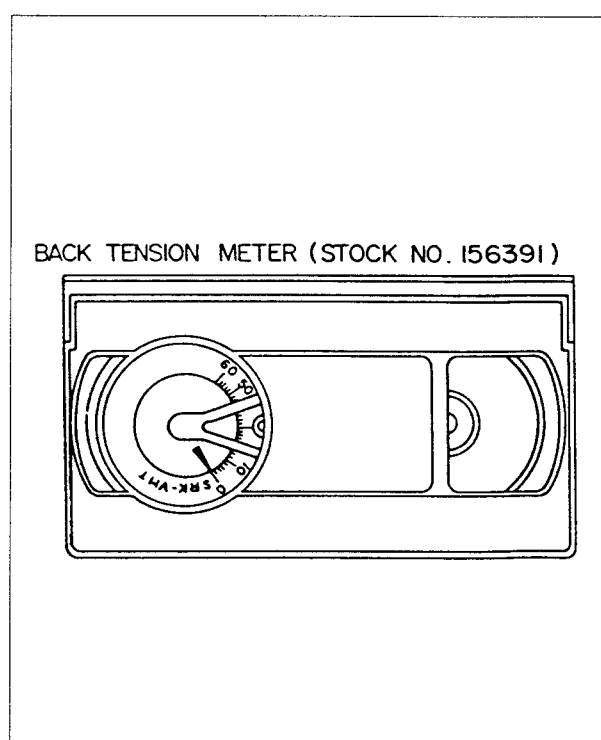


Fig. 4-74

# Memo

[illegible]

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## 5. Alignment and Adjustments (Electrical)

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### 5-1 Preadjustment

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#### 5-1-1 Factory Mode

1. Do not attempt these adjustments in the Video Mode.
2. The Factory Mode adjustments are necessary when either the EEPROM (IC902) or the CRT is replaced.
3. Do not tamper with the "Adjustment" screen of the Factory Mode menu. This screen is intended only for factory use.

#### 5-1-2 When EEPROM (IC902) Is Replaced

1. When IC902 is replaced all adjustment data revert to initial values. It is necessary to re-program this data.
2. After IC902 is replaced, warm up the TV for 10 seconds

#### 5-1-3 When CRT Is Replaced

1. Make the following adjustments AFTER setting up after setting up purity and convergence:  
  
White Balance  
Sub-Brightness  
Vertical Center  
Vertical Size  
Horizontal Size
2. If the EEPROM or CRT is replaced, set PSL and PVA to 15 and 63 (Factory Mode).

## 5-2 Factory ( "Service" ) Mode

---

### 5-2-1 Procedure for the "Adjustment" Mode

1. This mode uses the standard remote control. The Service Mode is activated by: (1) pressing the "HIDDEN" service key on the local-keyboard, or (2) by entering the following remote-control sequence (within 2 seconds):  
  
STAND-BY → P.STD → MENU → SLEEP → POWER ON
2. The "SERVICE (FACTORY)" message will be displayed. The Service Mode has these components: Adjustment, Option Bytes and Reset.
3. Access the Adjustment Mode by pressing the "VOLUME" keys ( Up or Down). The adjustment parameters are listed in the accompanying table, and selected by pressing the CHANNEL keys (▲, ▼).
4. Selection sequences for the PAL/SECAM B/G, L systems:  
  
DOWN or UP key:  
AGC>VCO>LCO>SBT>SCT>SCR>RG>GG>BG>TCT>SC>PSL>PVS>PVA>PHS
5. For an NTSC tape or NTSC A/V input:  
  
DOWN or UP keys:  
AGC>VCO>SBT>SCT>SCR>STT>RG>GG>BG>SC>NSL>NVS>NVA>NHS
6. The VOLUME keys increase or decrease the adjustment values, (stored in the non-volatile memory when Adjustment Mode is cancelled).

## 5-2-2 Main Adjustment Parameters

Table 5-1 Main Adjustment Parameter (Sony $\mu$ -com) with TTX			
FUNCTION	OSD ABBREVIATION	RANGE	INITIAL DATA
AUTO GAIN CONTROL	AGC	0 ~ 63 STEP	43
SUB BRIGHT	SBT	0 ~ 13 STEP	6
SUB CONTRAST	SCT	0 ~ 13 STEP	6
SUB COLOR	SCR	0 ~ 13 STEP	6
SUB TINT	STT	0 ~ 13 STEP	9
RED CUTOFF	RC	0 ~ 63 STEP	38
GREEN CUTOFF	GC	0 ~ 63 STEP	32
BLUE CUTOFF	BC	0 ~ 63 STEP	33
TELETEXT CONTRAST	TCT	0 ~ 38 STEP	11
PAL VERTICAL SLOPE	PSL	0 ~ 63 STEP	28
PAL VERTICAL SHIFT	PVS	0 ~ 63 STEP	30
PAL VERTICAL AMPLITUDE	PVA	0 ~ 63 STEP	43
PAL HORIZONTAL SHIFT	PHS	0 ~ 63 STEP	33
NTSC VERTICAL SLOPE	NSL	0 ~ 63 STEP	29
NTSC VERTICAL SHIFT	NVS	0 ~ 63STEP	30
NTSC VERTICAL AMPLITUDE	NVA	0 ~ 63 STEP	39
NTSC HORIZONTAL SHIFT	NHS	0 ~ 63 STEP	46

NOTE : PVS,PVA, PHS, NVS, NVA,NHS parameters must be aligned using both the 50Hz and 60Hz vertical-field rates.

## 5-2-3 AGING Mode (Reference Only)

This pattern is used for pre-heating the CRT during manufacturing--it is accessed in the factory by twice pressing the "HIDDEN" key .

Even if the TV power is cut off, the Aging Mode is not cancelled, The patterns are displayed at 5 sec intervals. The AGING mode is cancelled by repressing the "HIDDEN" key.



## 5-2-4 Option

BIT	ITEM	0	1	REMARK
7	TTX	NO TTX	TTX	
6	TTX SYSTEM	LIST FIRST	FLOF FIRST	
5	CONTRAST	90	100	
4	TUNER QUANTITY	1	2	
3	TUNER KINDS	2889	0889	
2	SYSTEM (L)			
1	SYSTEM (D/K)			
0	SYSTEM (I)			

1. After an option is modified, the system must be reset in order for the change to take effect.
2. Bit 6 : TTX System. This bit reverts to its initial value during Power ON.
3. Bit 5 : After a "Factory Reset", the Contrast Option determines the contrast level during Memory Mode.
4. Bit 3 : Tuner Options:

TUNER BAND	TECC2889PA19C	TECC0889PA19C
VHF-L	40.00~171.75 MHz (E2~S10)	40.00~150.75 MHz (E2~S7)
VHF-H	171.75~467.25 MHz (E5~S41)	150.75~467.25 MHz (S8~S41)
UHF	467.25~ (E21~ )	467.25~900.00 MHz (E21~ )

### 5. Bits 2,1,0 :

#2 (L)	#1 (D/K)	#0 (I)	AREA	COLOR SYSTEM	SOUND SYSTEM
0	0	0	WEST, SCAN	AUTO, PAL, SECAM	X
0	0	1	UNITED KINGDOM ①	AUTO, PAL	X
0	1	0	EAST,CIS	AUTO, PAL, SECAM	AUTO, B/G, D/K
0	1	1	CHINA, HONG KONG	AUTO, PAL, SECAM	AUTO, B/G, D/K, I
1	0	0	FRANCE	PAL/SECAM, FRANCE ②	X
1	0	1	ITALY	AUTO, PAL	X
1	1	0	OCEANIA	AUTO PAL	X
1	1	1	NOT USED (DEFAULT OPERATION = WEST, SCAN)		

Note 1: United Kingdom: 468 - 900MHz (UHF only)

Others: 40 - 900 MHz

Note 2: Color decoder mode is always "auto"

SYSTEM	MODULATION STANDARD	COLOUR DECODER MODE
PAL/SECAM	NEGATIVE	AUTO
FRANCE	POSITIVE	AUTO

### 5-2-5 Option 2

BIT	ITEM	0	1	REMARK
7	NOT USED			
6	NOT USED			
5	POWER ON AFT	ONCE	TWICE	
4	PDC	NO	YES	
3	VPS	NO	YES	
2	3.58 X-TAL	NO	YES	
1	VIDEO PLUS	NO	YES	
0	SHOWVIEW	NO	YES	

Notes:

Bit 5 : Power On AFT: When this bit=1, the AFT will re-start automatically (unless a key is pressed within 5 seconds of power ON).

Bits 4,3 : VPS and VDC cannot exist simultaneously. (The same applies for VIDEO PLUS and SHOWVIEW)

### 5-2-6 VCR Option

BIT	ITEM	0	1	REMARK
7	NOT USED			
6	NOT USED			
5	NOT USED			
4	HEAD	2-HEAD	4-HEAD	
3	SP/LP	SP ONLY	SP/LP	
2	SECAM	N/A	POSSIBLE	
1	MESECAM	N/A	POSSIBLE	
0	NTSC3.58	N/A	POSSIBLE	

## 5-3 Reset

The Reset Mode is used during factory inspection.

Function Reset : After Factory Reset, the following items revert to their initial values.

- |    |                          |           |
|----|--------------------------|-----------|
| 1. | Volume                   | 0         |
| 2. | Channel                  | 0         |
| 3. | P-STD                    | MEMORY    |
| 4. | Contrast-tint            | MEMORY    |
| 5. | Auto Power               | OFF       |
| 6. | NR                       | OFF       |
| 7. | Reserved Timer Recording | ALL CLEAR |
| 8. | Skip (Store/Clear)       | ALL CLEAR |

**Caution :** When the EEPROM is replaced, all items revert to their initial values.

## 5-4 Other Adjustments

---

### 5-4-1 General

1. Usually, a color TV needs only slight touch-up adjustment upon installation. Check the basic characteristics such as height, horizontal and vertical sync and focus.
2. The picture should have good black and white details. There should be no objectionable color shading; if color shading is present, perform the purity and convergence adjustments described below.
3. Use the specified test equipment or its equivalent.
4. Correct impedance matching is essential.
5. Avoid overload. Excessive signal from a sweep generator might overload the front-end of the TV. When inserting signal markers, do not allow the marker generator to distort test results.
6. Connect the TV only to an AC power source with voltage and frequency as specified on the backcover nameplate.
7. Do not attempt to connect or disconnect any wires while the TV is turned on. Make sure that the power cord is disconnected before replacing any parts.
8. To protect against shock hazard, use an isolation transformer.

### 5-4-2 Automatic Degaussing

A degaussing coil is mounted around the picture tube, so that external degaussing after moving the TV should be unnecessary. But the receiver must be properly degaussed upon installation.

The degaussing coil operates for about 1 second after the power is switched ON. If the set has been moved or turned in a different direction, disconnect its AC power for at least 10 minutes.

If the chassis or parts of the cabinet become magnetized, poor color purity will result. If this happens, use an external degaussing coil. Slowly move the degaussing coil around the faceplate of the picture tube and the sides and front of the receiver. Slowly withdraw the coil to a distance of about 6 feet before removing power.

### 5-4-3 High Voltage Check

**CAUTION:** There is no high voltage adjustment on this chassis. The B+ power supply must be set to +125 volts (Full color bar input and normal picture level).

1. Connect a digital voltmeter to the second anode of the picture tube.
2. Turn on the TV. Set the Brightness and Contrast controls to minimum (zero beam current).
3. The high voltage should not exceed 27.5KV.
4. Adjust the Brightness and contrast controls to both extremes. Ensure that the high voltage does not exceed 27.5KV under any conditions.

#### **5-4-4 FOCUS Adjustment**

1. Input a black and white signal.
2. Adjust the tuning control for the clearest picture.
3. Adjust the FOCUS control for well defined scanning lines in the center area of the screen.

#### **5-4-5 Screen Adjustment**

1. Turn to the ACTIVE channel.
2. Adjust the VR screen for a normal picture is (no blooming or flyback line).
3. Adjust the FOCUS control for well defined scanning lines in the center area of the screen.

#### **5-4-6 Purity Adjustment**

1. Warm up the receiver for at least 20 minutes.
2. Plug in the CRT deflection yoke and tighten the clamp screw.
3. Plug the convergence yoke into the CRT and set in as shown in Fig. 5-1.
4. Input a black and white signal.
5. Fully demagnetize the receive by applying an external degaussing coil.
6. Turn the CONTRAST and BRIGHTNESS controls to maximum.
7. Loosen the clamp screw holding the yoke. Slide the yoke backward or forward to provide vertical green belt. (Fig. 5-2).
8. Tighten the convergence yoke.
9. Slowly move the deflection yoke forward, and adjust for the best overall green screen.
10. Temporarily tighten the deflection yoke.
11. Produce blue and red rasters by adjusting the low-light controls. Check for good purity in each field.
12. Tighten the deflection yoke.

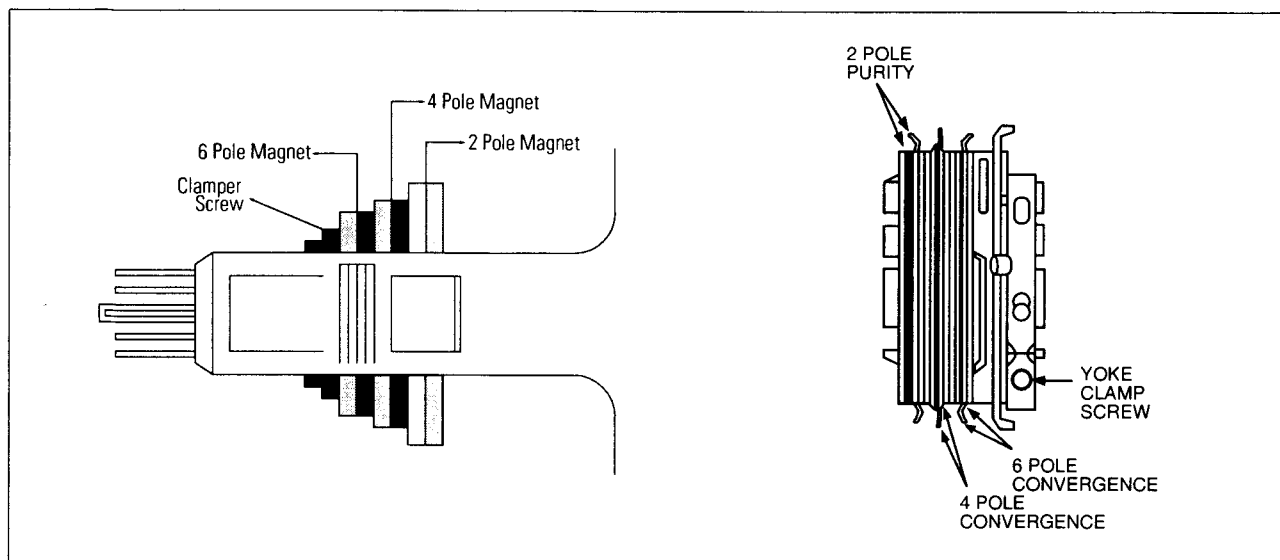


Fig. 5-1 Convergence Magnet Assembly

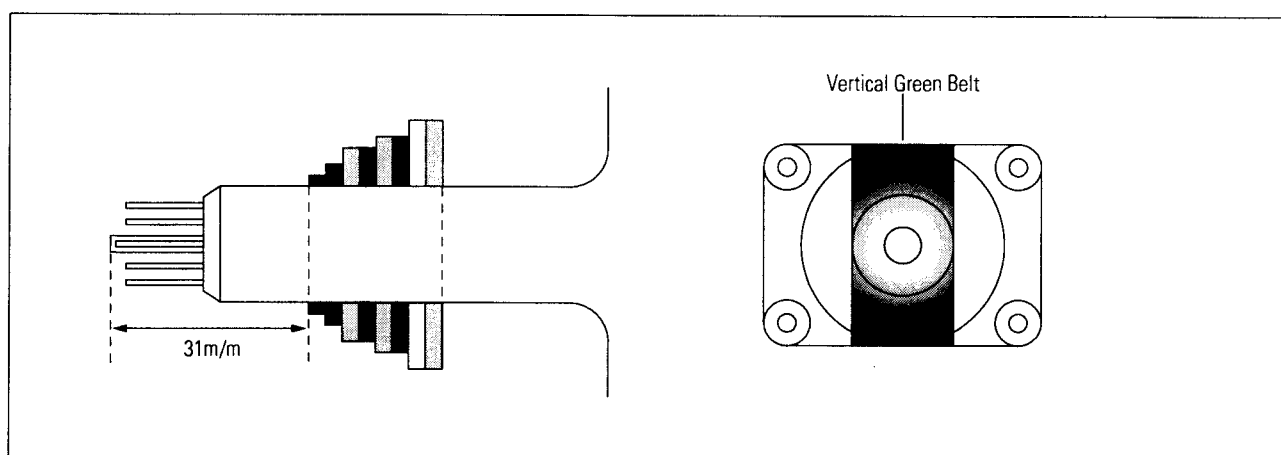


Fig. 5-2 Center Convergence Adjustment

### 5-4-7 White Balance Adjustment

#### 5-4-7 (a) High-Light Adjustment

1. Input either a Lion Head or a "pure white" pattern.
2. Warm up the TV for 30 minutes.
3. Check the data in the Service Mode
4. Adjust RG, BG in the Factory Mode.

#### 5-4-7 (b) Low-Light Adjustment

1. Automatically accomplished during the high-light adjustment.

### 5-4-8 Center Convergence Adjustment

1. Warm up the receiver for at least 20 minutes.
2. Adjust the two tabs of the 4 pole magnets to change the angle between them. Superimpose the red and blue vertical lines in the center area of the screen.
3. Adjust the Brightness and Contrast controls for a well defined picture.
4. Adjust the two-tab pairs of the 4 pole magnets, and change the angle between them. Superimpose the red and the blue vertical lines in the center area of the screen.
5. Turn the both tabs at the same time, keeping the angle constant, and superimpose the red and blue horizontal line in the center of the screen.
6. Adjust the two-tab pairs of the 6-pole magnets to superimpose the red and blue line onto the green. (Changing the angle affects the vertical lines, and rotating both magnets affects the horizontal lines.)
7. Repeat adjustments 2~6, if necessary.
8. Since the 4-pole magnets and 6-pole magnets interact, the dot movement is complex (Fig. 5-3).

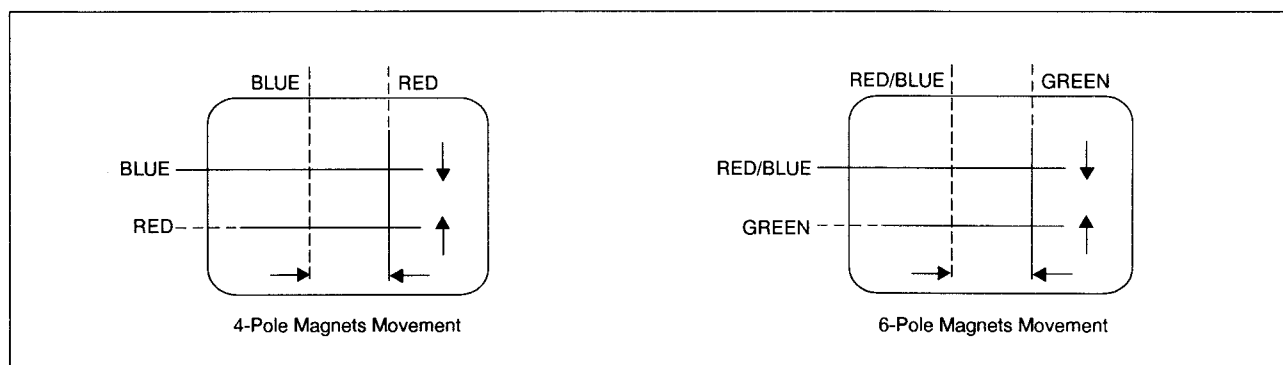


Fig. 5-3 Center Convergence Adjustment

### 5-4-9 VCO Adjustment

1. Apply an IF input (38.9MHz) signal.
2. In Factory Mode, adjust the AFC with the VCO tuning bits (AFA, AFB).

The VCO is correct when the AFA Bit is "INSIDE WINDOW".

(The AFB Bit is above~below). The AFC output is available on the I<sup>2</sup>C-BUS (used for VCO Adjustment and feedback).

### 5-4-10 LCO Adjustment

1. Apply an IF input (33.9) MHz signal.
2. Set the system to FRANCE.
3. In Factory Mode, adjust the AFC with the LCO tuning bits (AFA, AFB).

The LCO is correct when the AFA Bit is "INSIDE WINDOW"(The AFB Bit is above~below). The AFC output is available on the I<sup>2</sup>C-BUS (used for LCO Adjustment and feedback).

### 5-4-11 RF AGC Adjustment

1. Input a UHF High channel (80dB, 479.25MHz).
2. Set the AGC in the Factory mode.
3. Set Pin 53 of IC201 (TDA8374) to  $3.6V \pm 0.05V$  (DC).

## 5-5 Electrical Adjustment (VCR Section)

### 5-5-1 Preparation

Electrical adjustments are required after replacing circuit components and certain mechanical parts. It is important to perform these adjustment only after all repairs and replacements have been completed. Also, do not attempt these adjustments unless the proper equipment is available.

### 5-5-2 Required Test Equipment

1. Color Television or Monitor
2. Oscilloscope : Wide-band, dual-trace, triggered delayed sweep.
3. DC Voltmeter
4. TV CH Generator
5. Attenuator
6. Recording tape. (Blank tape)
7. Pattern Generator : PAL color bar. 100% White.

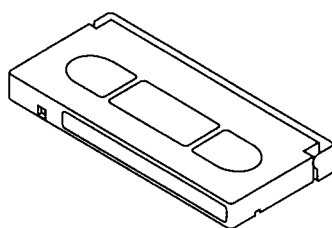


Fig. 5-4 Alignment Tape

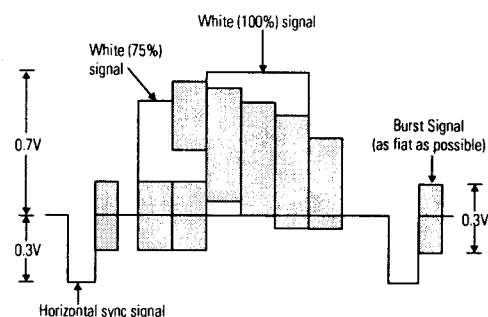
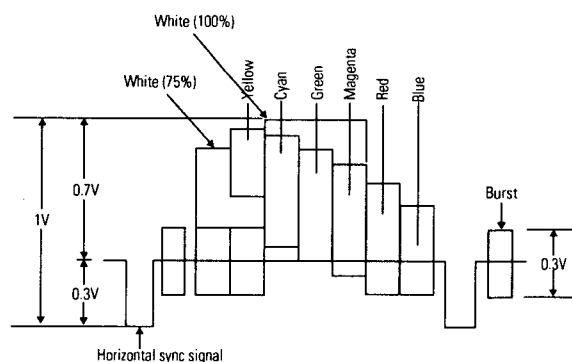


Fig. 5-5 Color bar signal of pattern generator



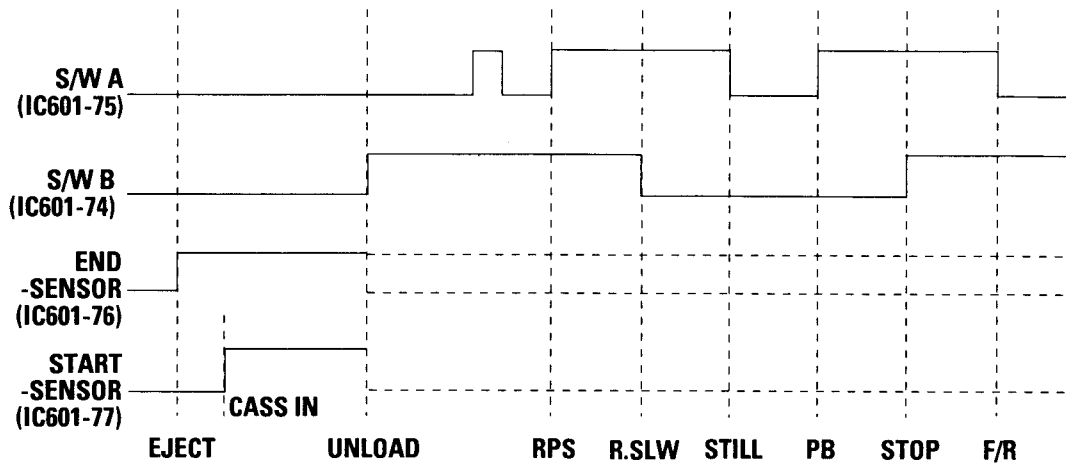
Color bar signal waveform

White (75%)	White (100%)	Yellow	Cyan	Green	Magenta	Red	Blue
Brown	Deep Blue	White 100%	Black				

Color bar pattern

Fig. 5-6 Color bar signal of alignment tape (75% Color Bars)

### 5-5-3 Timing Chart of Program S/W

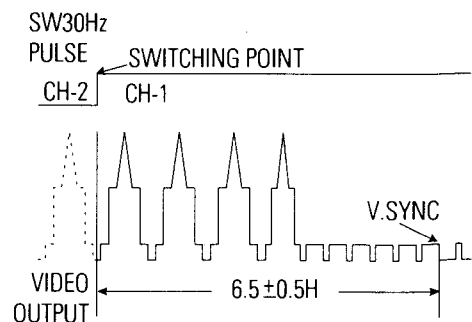


POSITION	PROGRAM S/W (SW601)				ACTION MODE
	E/S	S/S	S/W A	S/W B	
EJECT	L	L	L	L	EJECT
CASS IN	H	L H	L	L	CASS IN
UNLOAD	-	-	L	L H	UNLOAD
R.PS	-	-	L H	H	R.PS, Z-R.PS
R.SLOW	-	-	H	H L	PINCH ROLLER OFF POSITION
STILL	-	-	H L	L	STILL, SLOW, F-ADV
PLAY	-	-	L H	L	PB, T-STOP, REC, PAUSE, F.PS, Z-FPS
STOP	-	-	H	L H	STOP, POWER OFF
FF/REW	-	-	H L	H	FF, REW

## 5-6 SV-M30FK Adjustment Process

### 5-6-1 H'D S/W Point Adjustment:

1. Load alignment tape (PAL signal, SPC-SD).
2. Connect oscilloscope, CH-1 to TP201 (H'D S/W pulse), & CH-2 to TP302 (Video out)
3. Adjust VR201 (H'D S/W pulse) so that the waveform looks like the one shown below:

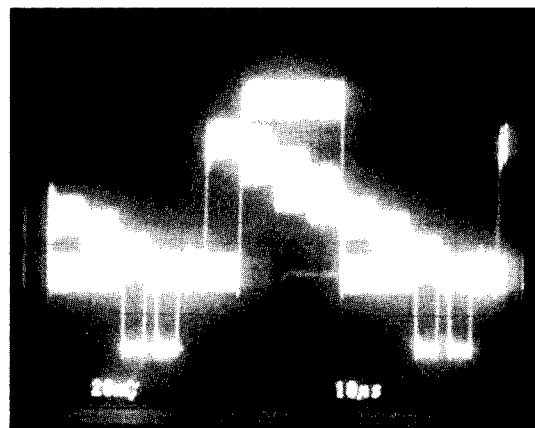
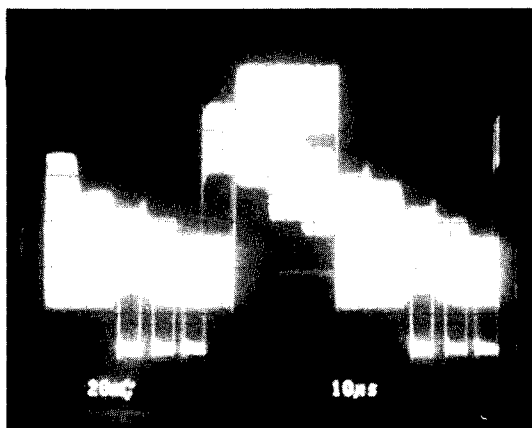




## 5-6-2 SECAM Bell Adjustment-5

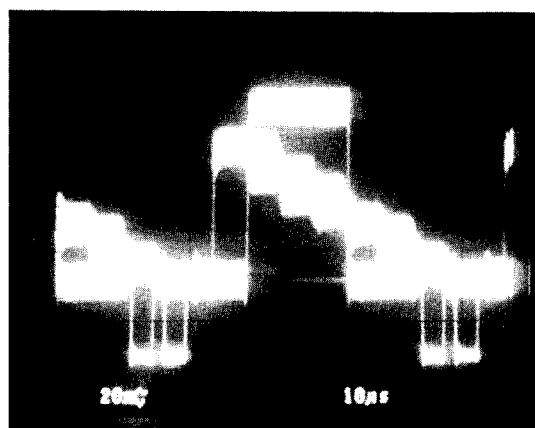
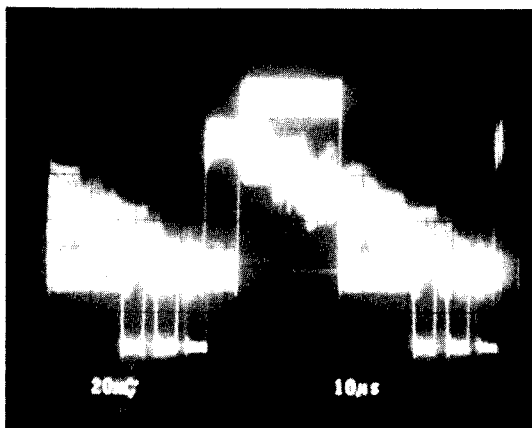
### 5-6-2 (A) PB Bell Adjustment :

1. Measurement Point : TP301
2. Adjustment : VR302
3. Procedure :
  - ① Load alignment tape (SECAM signal, SR2-3)
  - ② Reduce noise level by adjusting "VR3S02".



### 5-6-2 (B) PB ANTI Bell Adjustment

1. Measurement Point : TP302
2. Adjustment : VR3S01
3. Procedure :
  - ① Load alignment tape (SECAM signal, SR2-3)
  - ② Reduce noise level by adjusting "VR3S02".

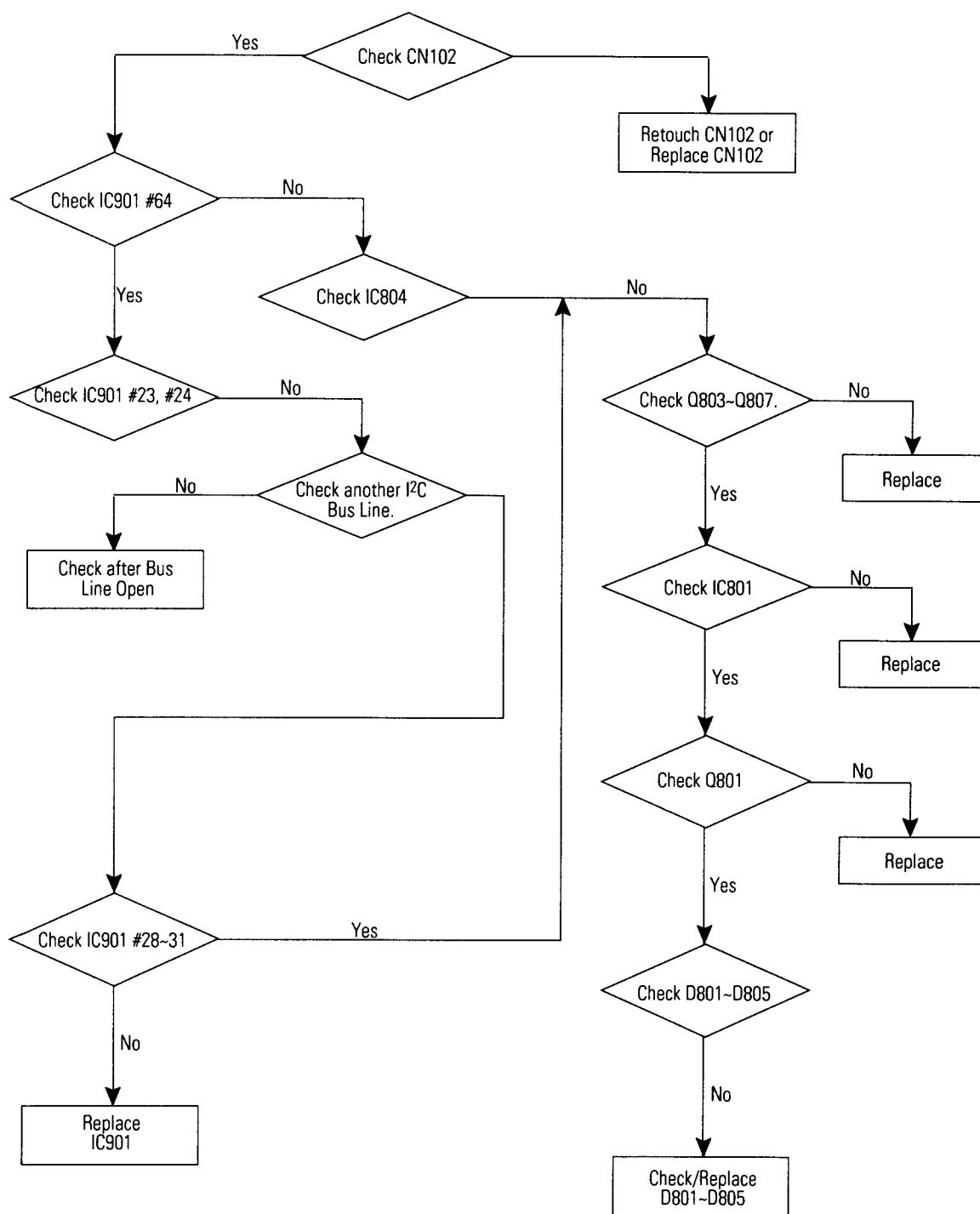


# Memo

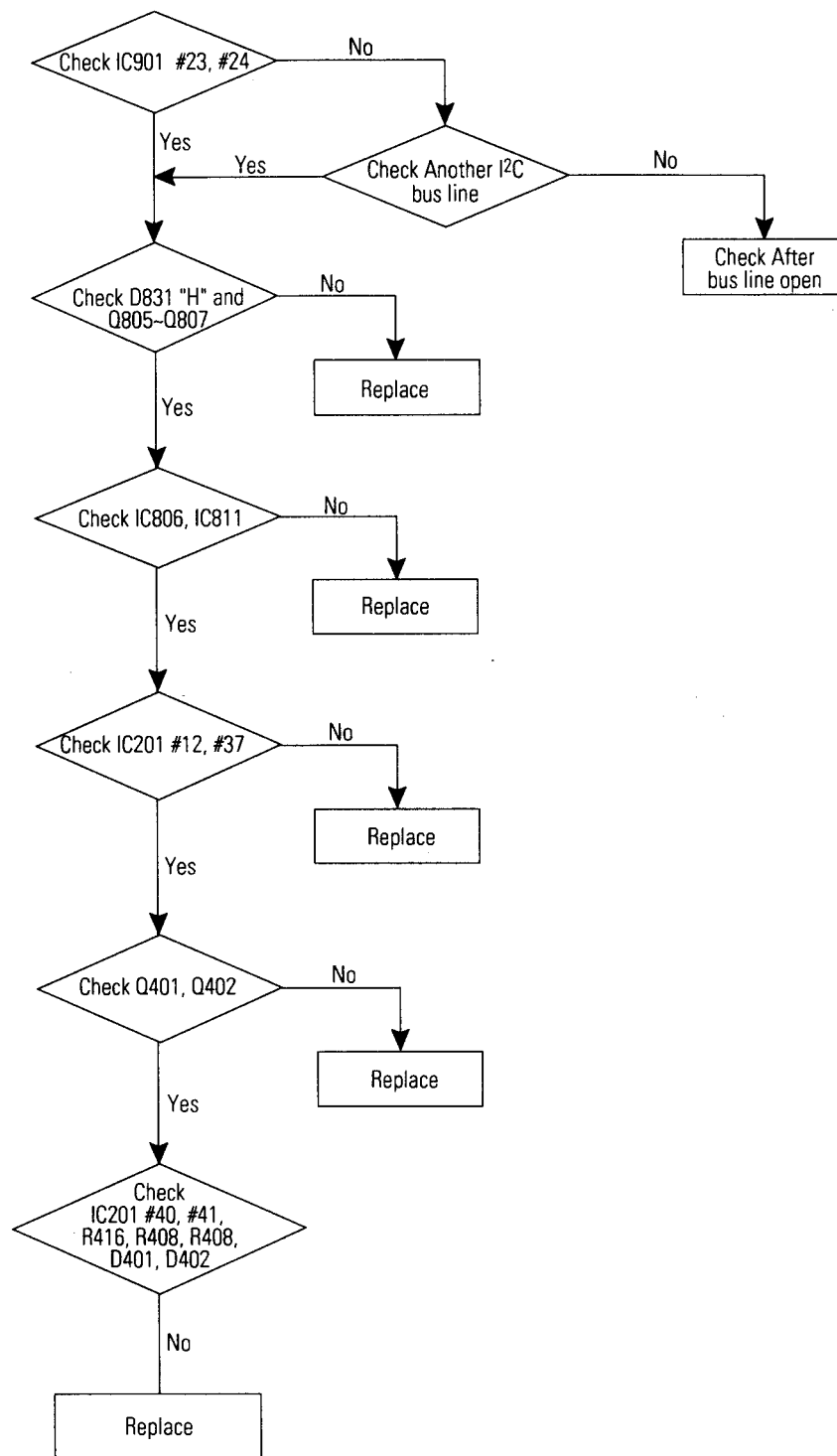
[illegible]

## 6. Troubleshooting

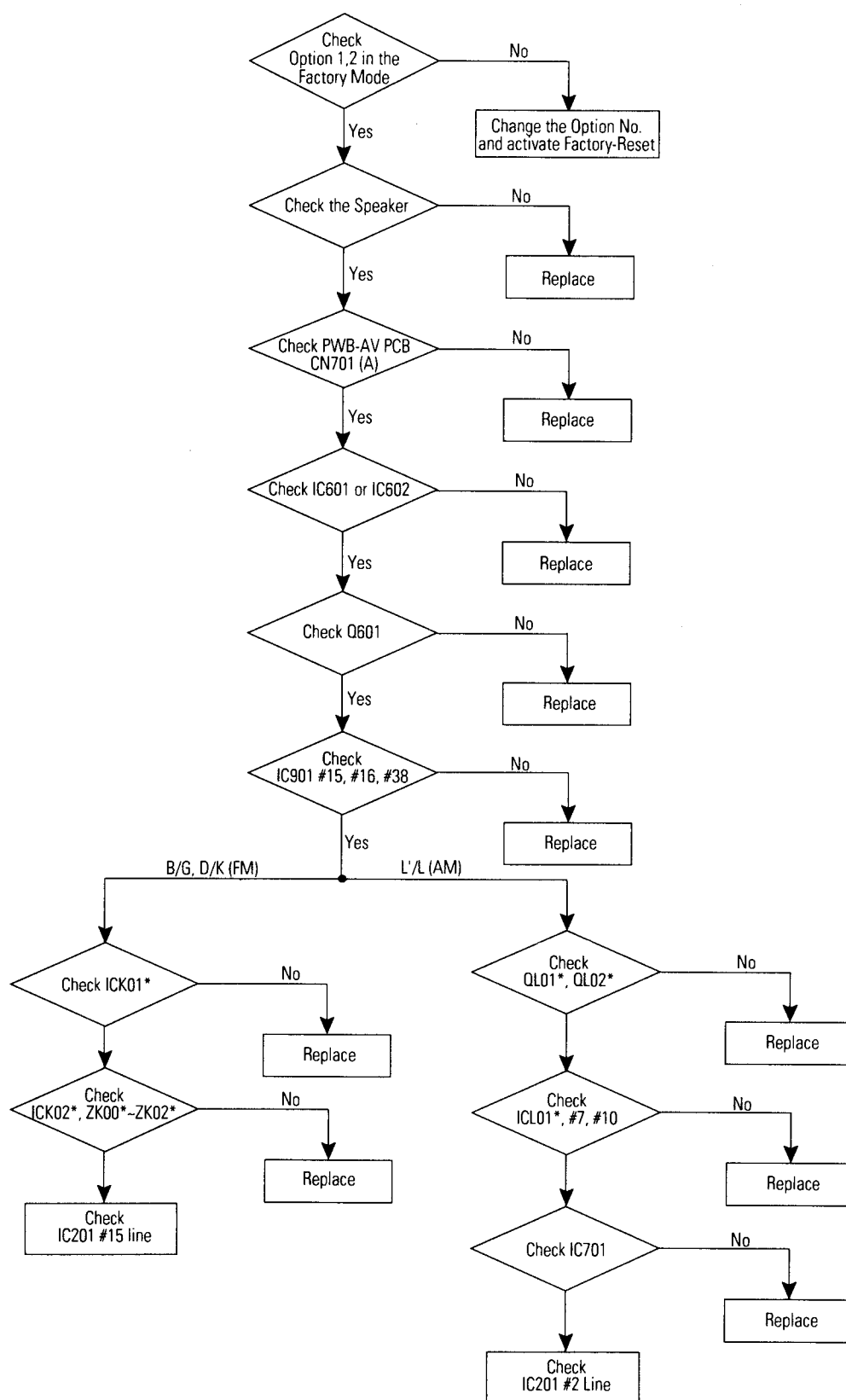
### 6-1 No Power (No LED on)



## 6-2 No Power (No Picture On)



## 6-3 No RF Sound (Picture Ok)



## **6-4 No Picture (Sound Ok)**

---

1. Check the Brightness, Contrast and Color adjustments
2. Check: AV Picture, Video Playback
3. See Video Block Diagram

## **6-5 No Sound (Picture Ok)**

---

1. Check the Volume adjustment level.
2. Check AV Video, Sound Playback
3. See Audio Block Diagram

## **6-6 RF Weak Signal (Playback, AV Mode Ok)**

---

1. Check Tuner (TU001) B+. Check: 12V (IC807)  
33V (DZ803). Check 5V (IC802)
2. Pre AMP (HC001), B+. Check: 9V (IC803)  
SPLITTER (SP001) B+. Check: 5V (IC803, ICU101)

## **6-7 Recording Defect**

---

1. CN101 Check : Retouch
2. 2nd Tuner (TU002) B+. Check : 12V (IC807), 33V(DZ803)  
5V (IC803, ICU101)
3. 2nd If : Check 12V (IC807), Video out, Audio out
4. Video Defect : IC701 Check
5. Audio Defect : IC704 Check
6. Standby Recording Defect, IC901 #5 Line: Check (D833, D838, IC808, IC807, IC806)
7. VPS (PDC) Recording Defect: Check IC901, #4

## **6-8 No Color**

---

1. Check the Color Adjustment level
2. Check the Sandcastle Pulse Line : IC201 #41, IC202 #5, IC203 \* #15
3. Check the R-Y, B-Y Line : IC201 #29~#32, IC202 #14, #16, #11, #12, IC203 #9, #10
4. Check IC203 : #15 (SECAM System)
5. Check crystal : X202 (4.43361MHz)

## **6-9 No Vertical SCAN**

---

1. Check R410, D404
2. Check IC301, #7
3. Check IC201 #46, #47 Line
4. Check DY Connector

## **6-10 Horizontal Size**

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1. Check DZ805 & IC801
2. Check Q803
3. Check C402 & C403

## **6-11 On Screen Display Missing**

---

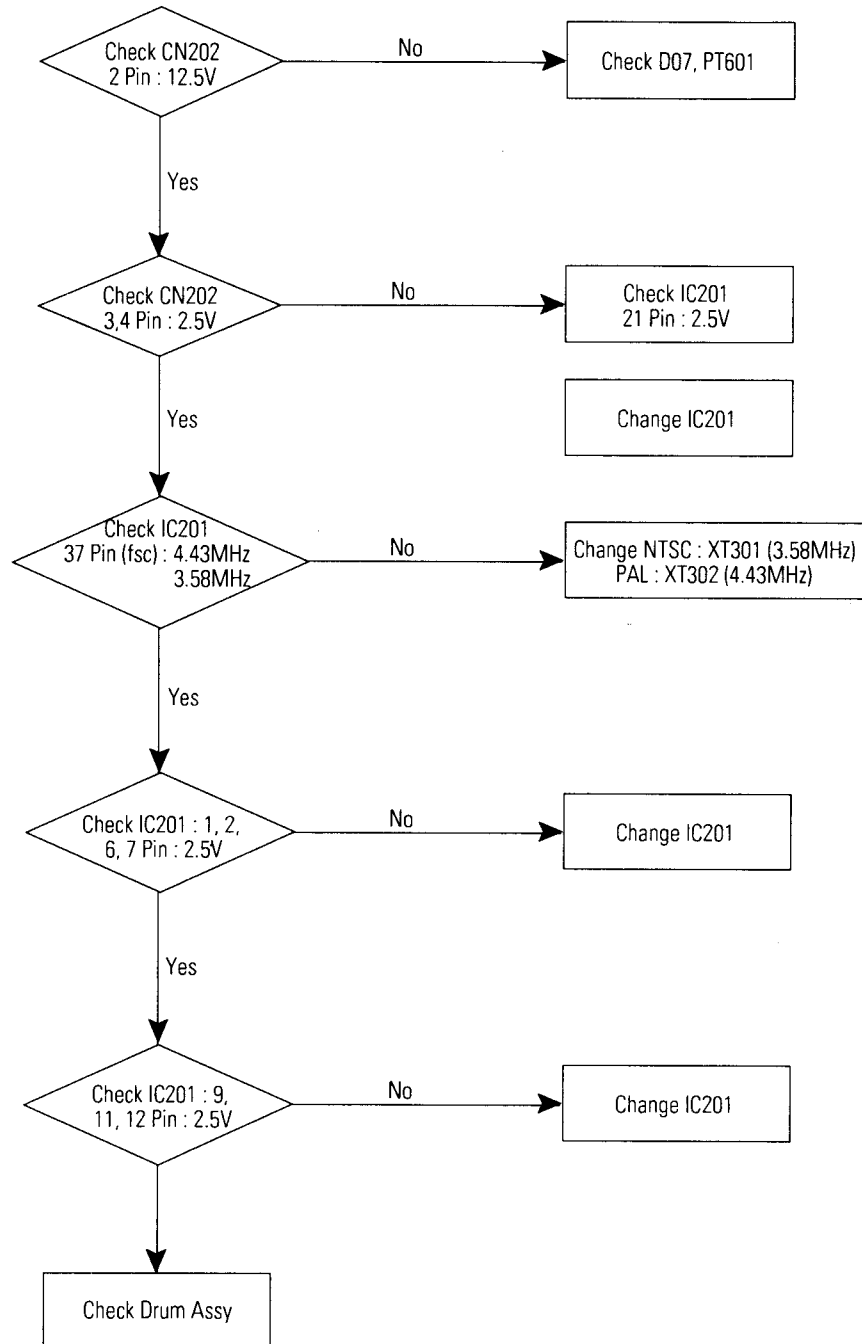
1. Check IC901 #2  
(D921, Q901, DZ901)
2. Check IC901 #1 (R949, D919)

## **6-12 No Teletext**

---

1. Check Q203 (IC203\* #16)
2. Check the 1st 5V-Line (R842, D817, IC802)
3. Check ICT01 #1 (Vcc(5V) : Teletext Board)
4. Check ICT01 #8 (CVBS : Teletext Board)
5. Check IC201 #26 (TTX F/B)

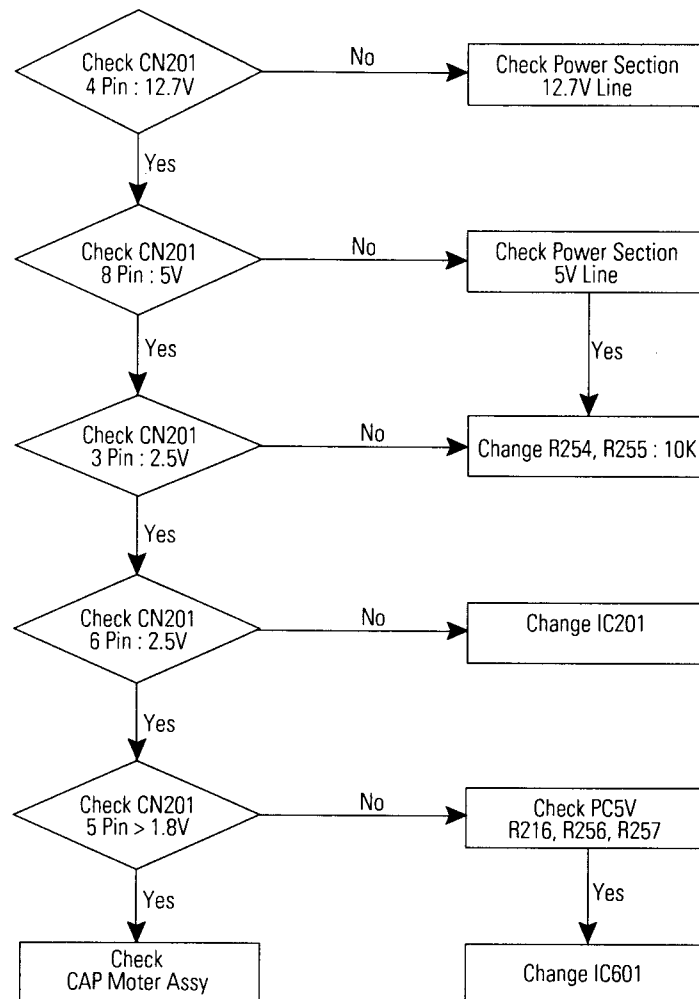
## 6-13 Drum Does not Operate





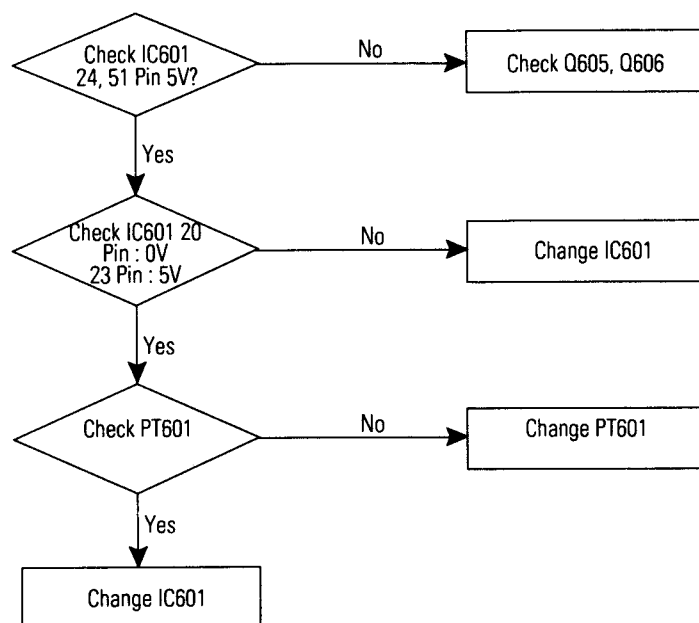
## 6-14 Capstan Does not Operate

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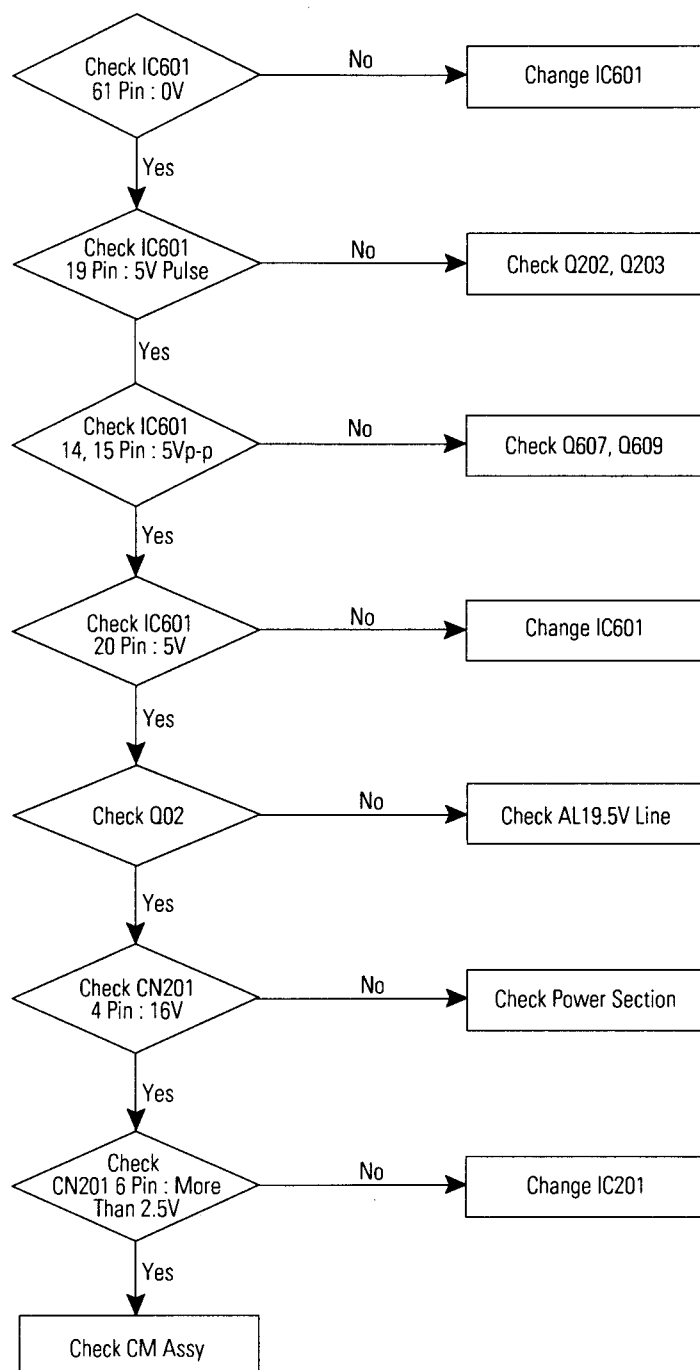


## 6-15 Loading Does not Operate

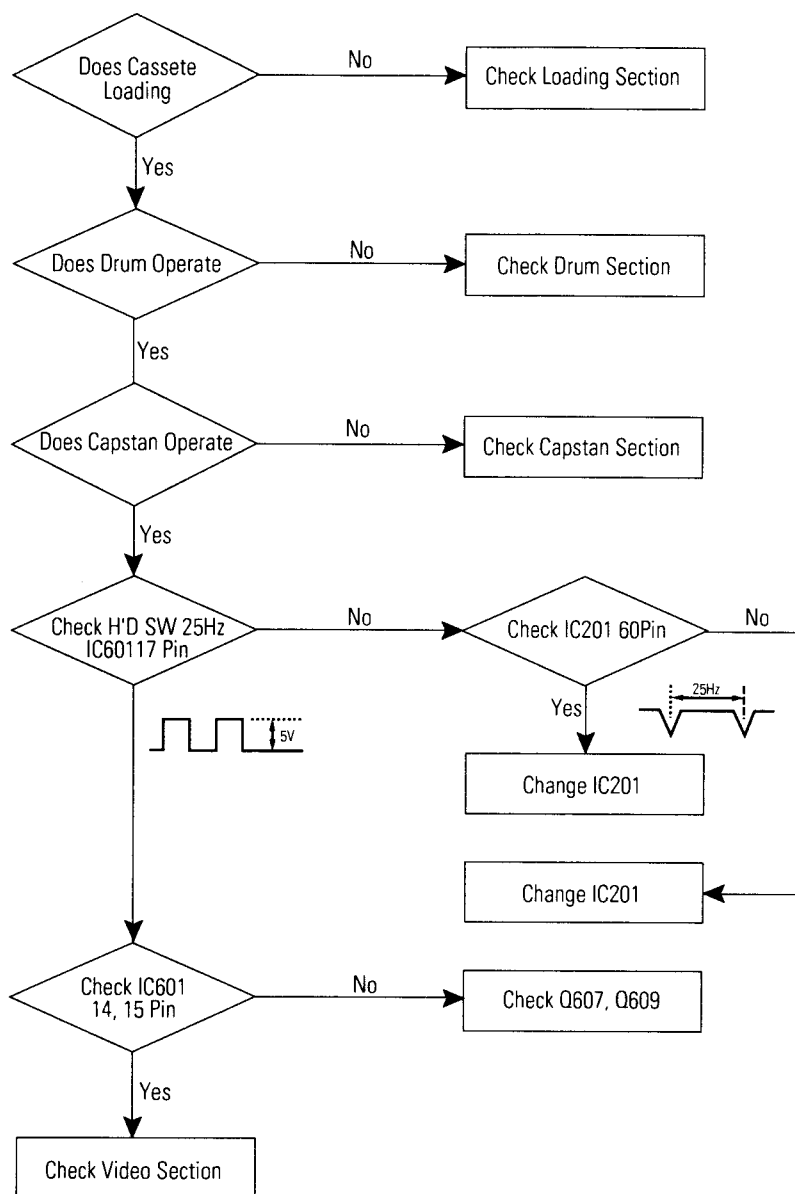
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## 6-16 No High Speed REW

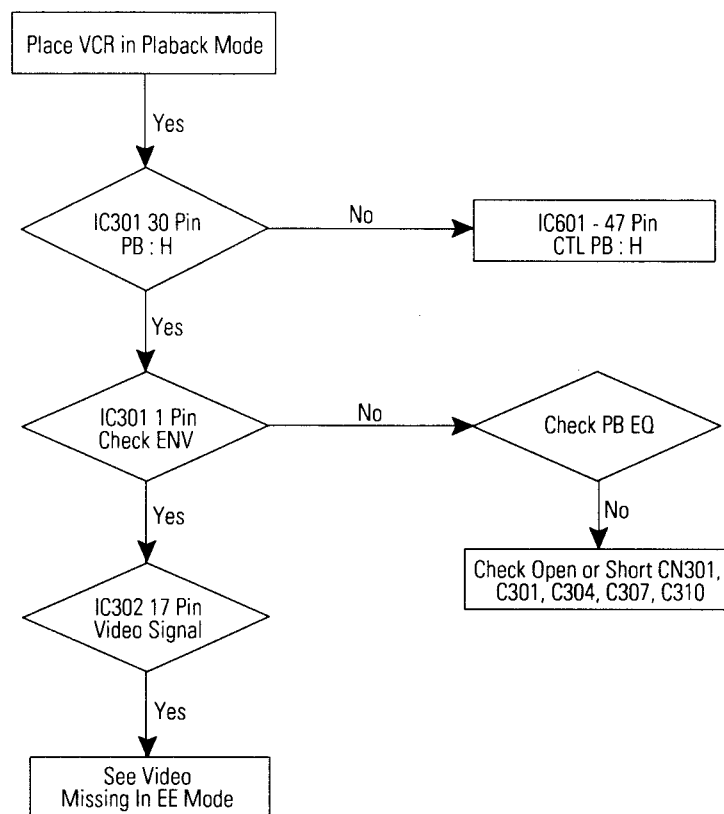


## 6-17 Play Does not Operate



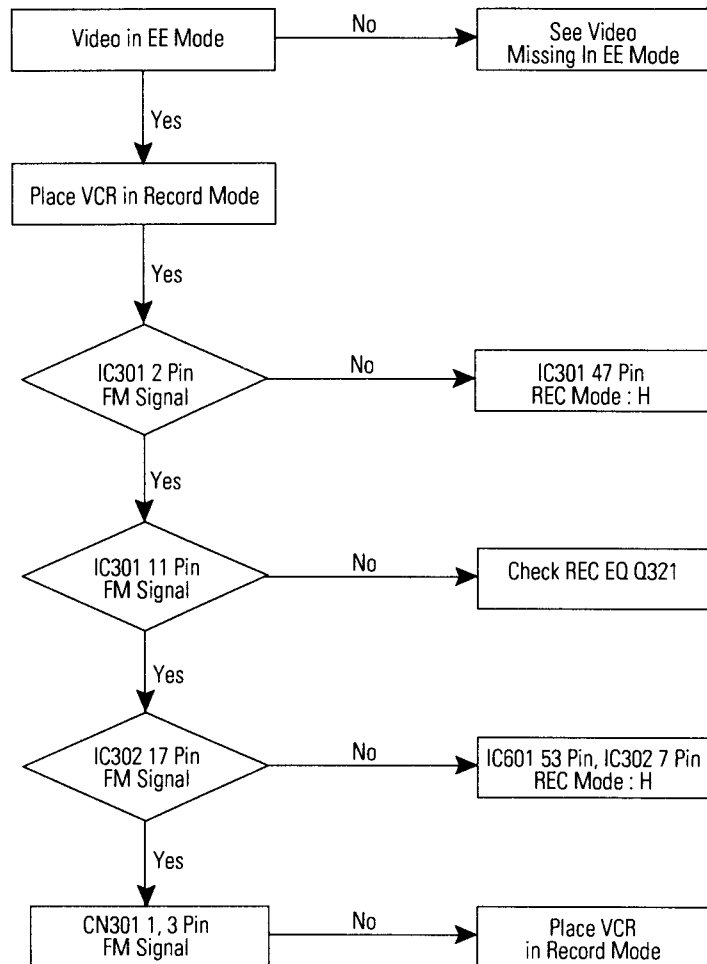
## 6-18 Video Missing in Playback Mode

---

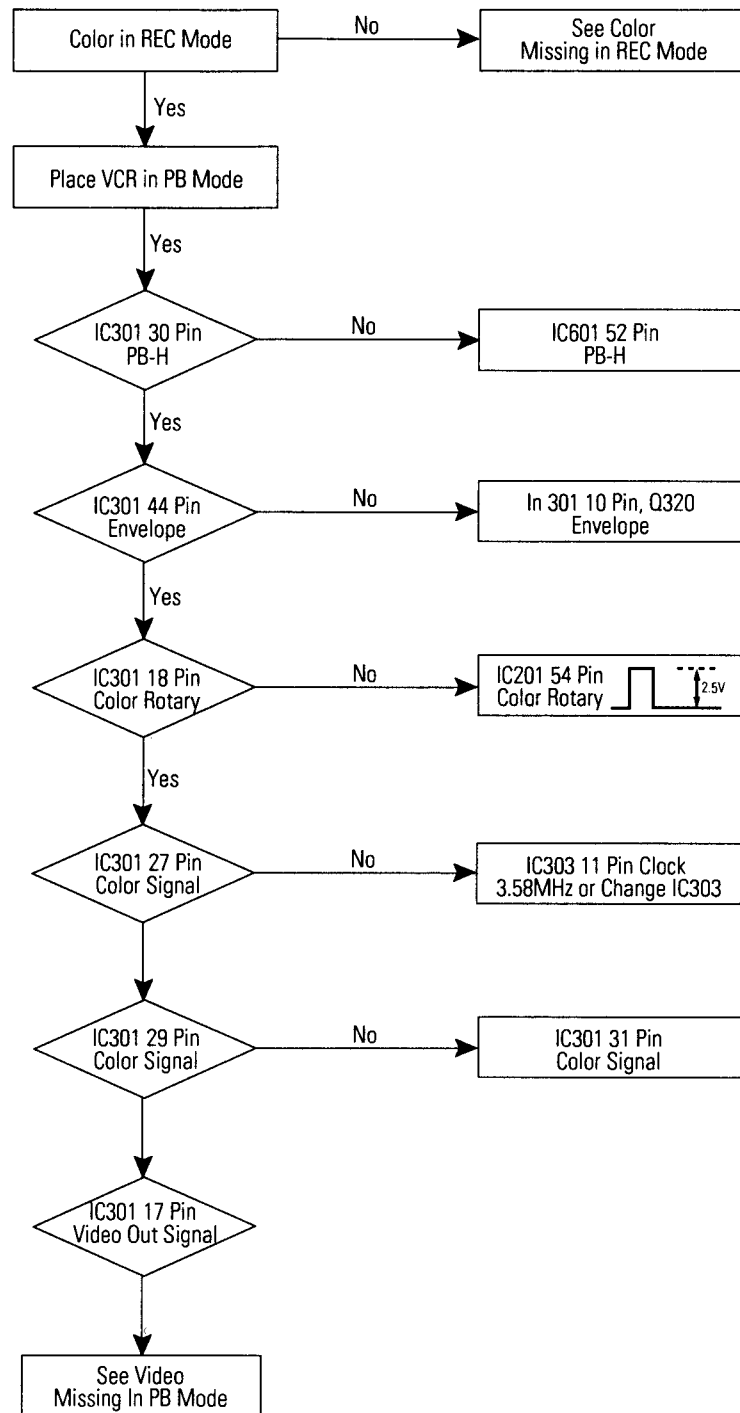


## 6-19 Video Missing in Record Mode

---

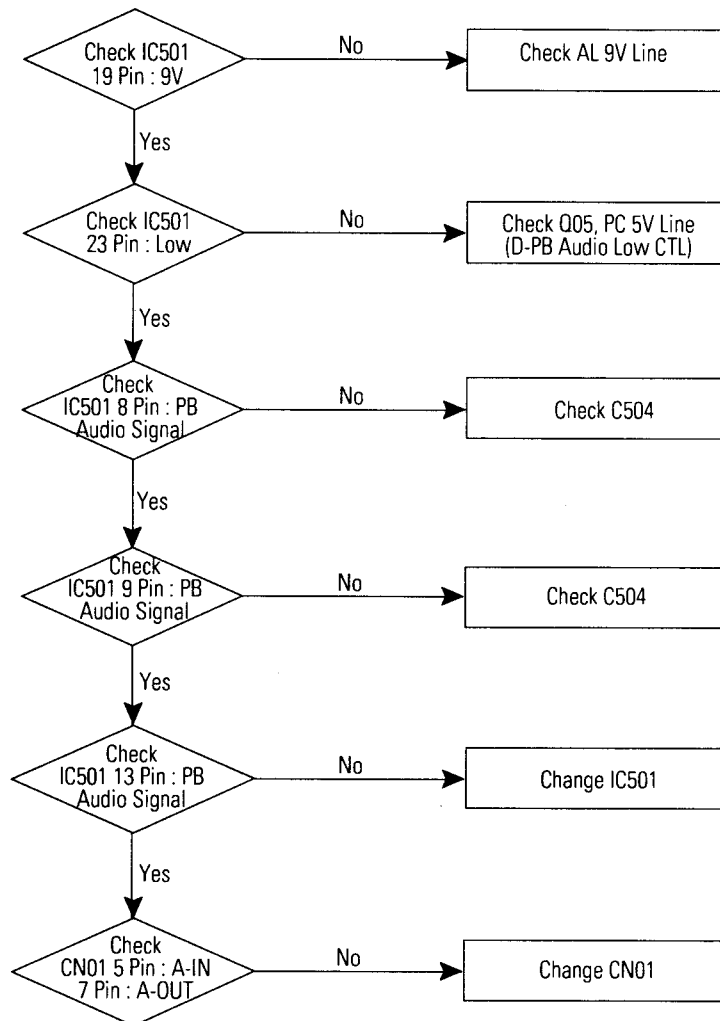


## 6-20 Color Missing in Play Mode



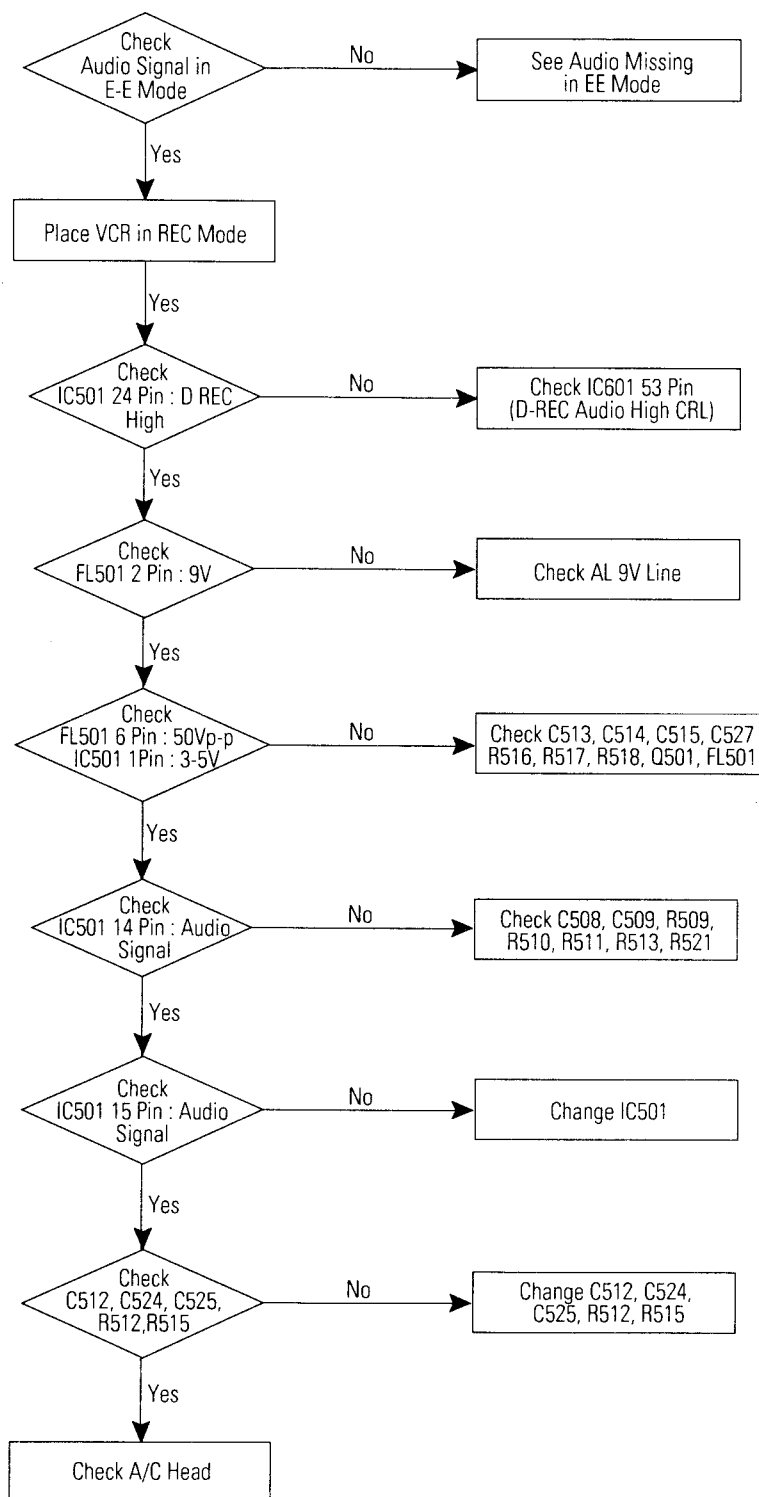
## 6-21 Audio Signal Missing in Play Mode

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## 6-22 Audio Signal Missing After Recording

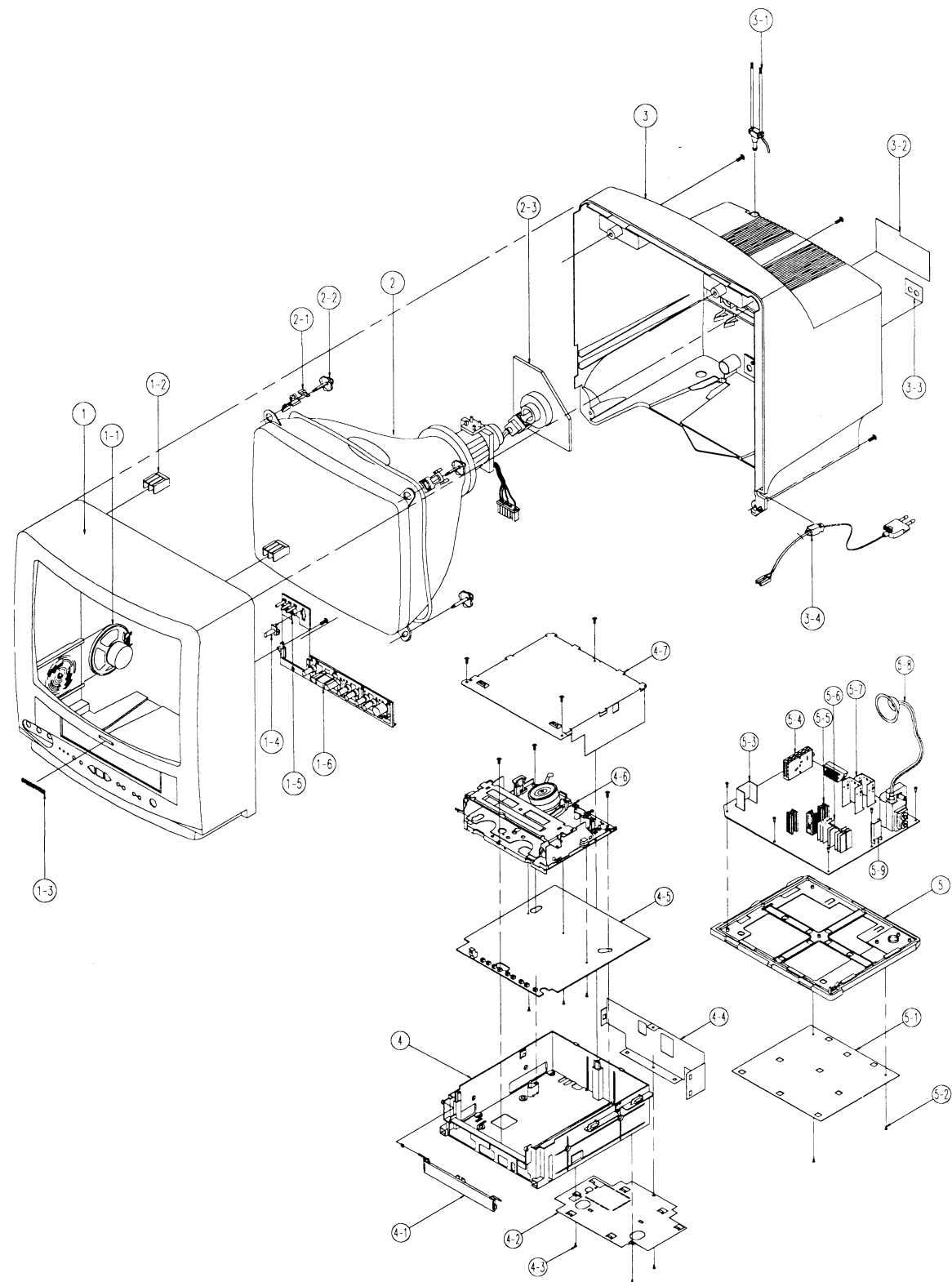


# Memo

[illegible]

7. Exploded Views and Parts List

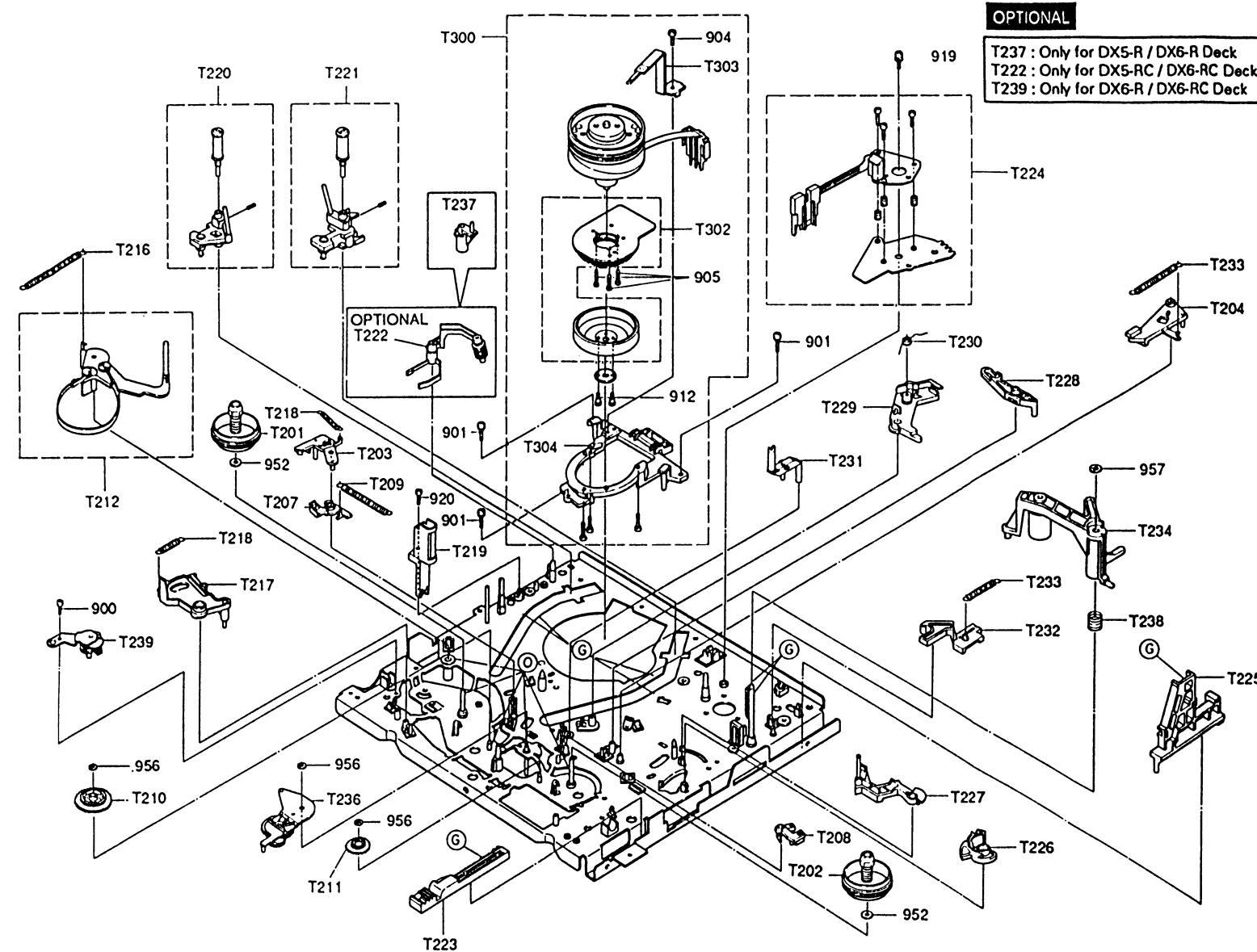
7-1. TVP3350X/SMSX Mechanism Parts



"Generic" parts (resistors, capacitors, etc.) cannot be ordered from the main factory.  
We suggest that you order "generic" parts from either the local factory or a local supplier.

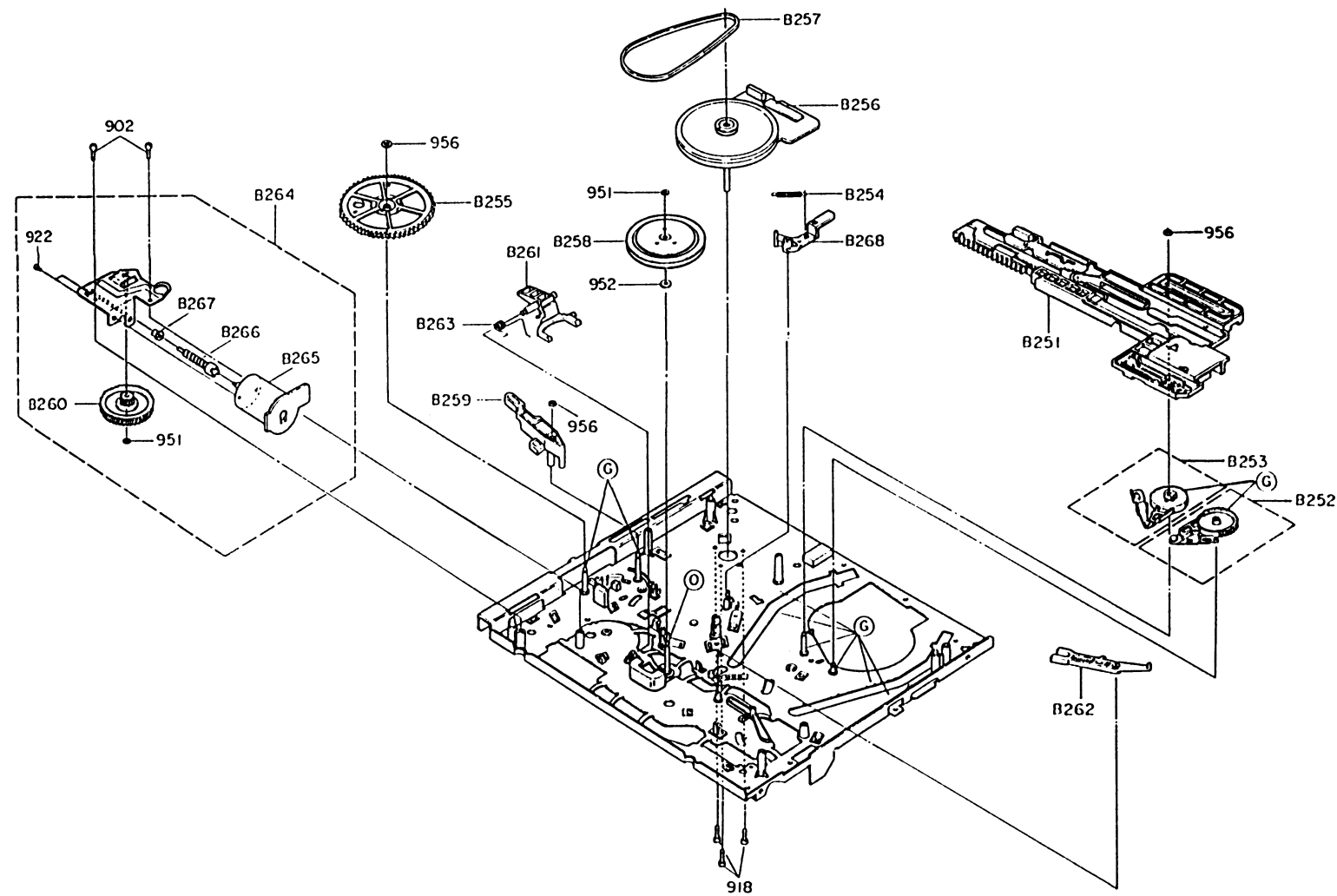
No	Code No.	Description	Specification	Remarks	Q'ty
ASSY-CABINET,FRONT					
1	AA90-50002B	ASSY-CABINET,FRONT	SESA,EUROPE,TVP3350	S.N.A	1
	AA64-30093F	CABINET-FRONT	- ,HIPS,HB,-,-,BLK,PA100 P	LOCAL	1
1-1	3001-001015	SPEAKER	2.5W,16OHM		1
1-2	AA61-40015A	BOSS-CABINET	- ,HIPS,HB,NTR,-,-		2
1-3	AA64-70009B	BADGE-BRAND	- ,AL-FORGING,-,L40,SILVER		1
1-4	AA64-40160A	INDICATOR-LED	- ,PC,-,-,-,T3350,-		1
1-5	AA64-40027A	WINDOW-REMOCON	- ,ABS,HB,-,-,T3350,-		2
1-6	AA64-10366A	KNOB-CONTROL	- ,ABS,HB,BLK,PA100,T3350	LOCAL	8
ASSY-CRT					
2	AA03-10001D	CRT-COLOR	- ,A34KQV42X,+380MG,14",90		1
2-1	AA65-30016A	CLAMP-D,COIL	- ,NYLON-66,V0,NTR,DADH-36		4
2-2	37124-100-830	SCREW-CRT	RH5X35 FE FZY		4
2-3	AA95-20004F	ASSY-PCB,CRT	- ,SCV11A,14",EUROPE,-		1
CABINET-BACK,ASSY					
3	AA64-30705A	CABINET-BACK	DP,-,NON,-,-,-,AA64-30650	LOCAL	1
3-1	AA42-10001C	ANT-ROD	- ,4S,620MM,SUS,UL/CSA		1
3-2	AA64-60050A	INLAY-BACK	- ,PS SHEET,TO.5,-,-,PAL-V		1
3-3	AA64-60062C	INLAY-BACK	- ,PS,TO.5,-,BLK,1-TUNER P		1
3-4	AA61-20045A	HOLDER-CORD	- ,PP,V0,BLK,DO,-		1
ASSY-MODULE,DECK					
4	62210-0094-02	FRAME;HIPS94HB T2 BLK SV-M30			1
4-1	AA64-50049K	DOOR-HOUSING	- ,ABS,HB,-,-,BLK,PA100,T5	LOCAL	1
4-2	AC63-40077A	SHIELD;SECC,TO.5,-,SV-M30,-			1
4-3	AC60-10063A	SCREW-TAPTITE;BH,+,-,M3,L12,ZPC3,SMRCH18A			4
4-4	AC63-30080A	COVER;SECC,-,TO.5,NTR,-,-,GV-4060,-			1
4-5	AC93-10008R	ASSY-MAIN;SV-M30FK/BON,MODULE DECK			1
4-6	AC96-10013H	ASSY-DECK;DX5-R,-			1
4-7	AC63-40199A	SHIELD;3516ET,TO.5,-,SV-M30,-			1
CHASSIS-MAIN,ASSY					
5	AA61-20163A	HOLDER-CHASSIS	- ,ABS,V0,GRY,-,T3350		1
5-1	AA63-40027A	SHIELD-CASE,T	- ,SPTE,TO.25,ACT51A,K1025		1
5-2	37148-530-101	SCREW-TAP,RH	2S-3X10 FE FZY		4
5-3	AA96-50027A	ASSY-H/S	- ,SOUND,31124-0025-000,TD	IC601	1
5-4	AA40-10002M	TUNER-F/S	- ,TECC2980PA19C,PAL-B/G,T		1
5-5	AA96-50147F	ASSY-H/S	- ,TR,31123-0035-010,KA780	IC812	1
5-6	AA96-50260A	ASSY-H/S	- ,POWER,AA62-30004S,STR67	Q801	1
5-7	AA96-50063B	ASSY-H/S	- ,VERT,31124-0014-000,ISD	Q401	1
5-8	AA26-30002J	TRANS-FRYBACK	- ,FCX-14A033,14",125V		1
5-9	AA96-50123A	ASSY-H/S	- ,POWER,31124-20029-000,F	D818	1

7-2 VCR Mechanical Parts(1) : Top View



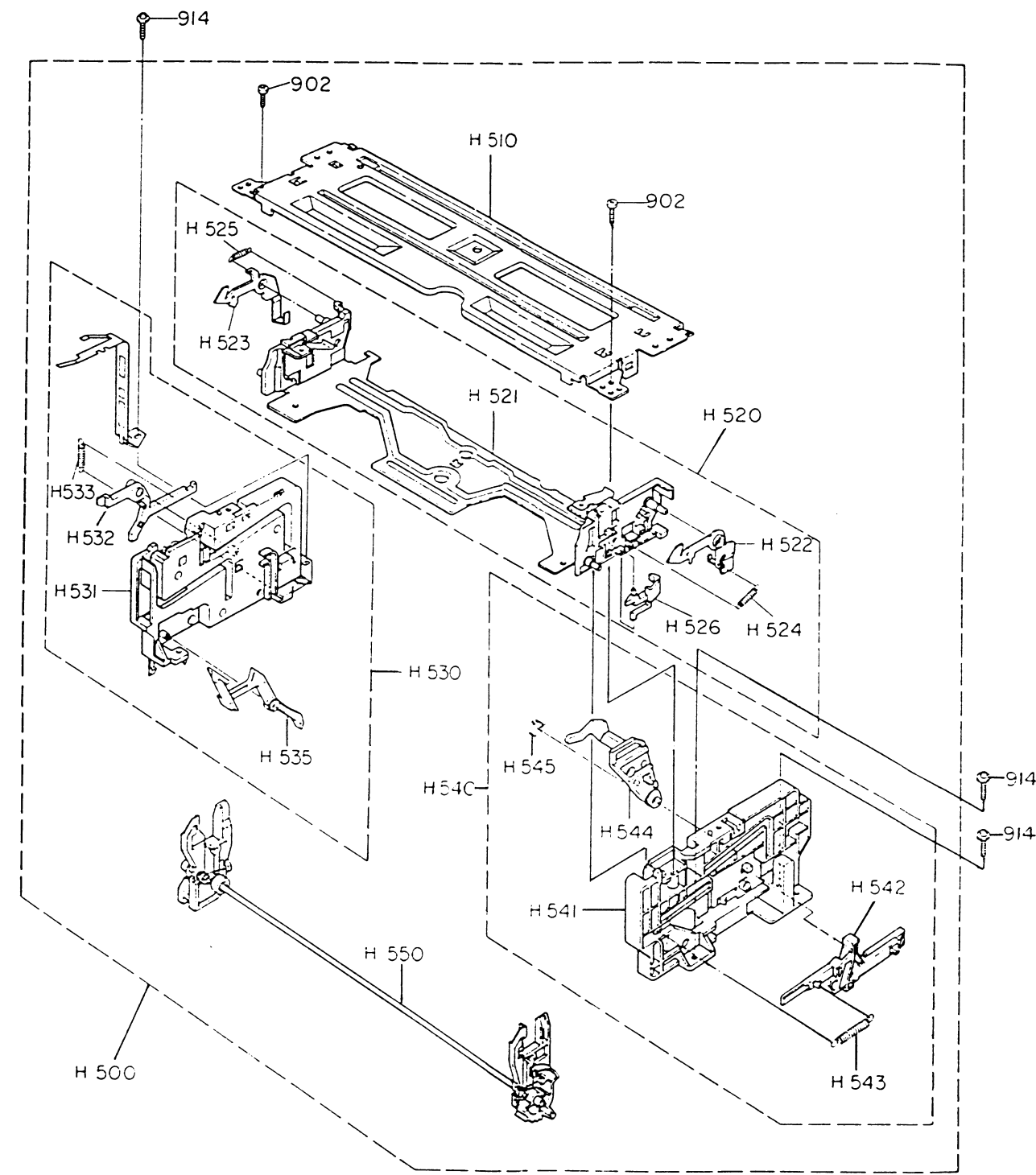
Loc No.	New Code No.	Description & Specification	Old Code No.
901	AC60-10012A	SCREW-MACHINE;BH FP M3 L8 FZY WS	60509-0064-00
904		SCREW-PH;M3X6 TAP TITE	67108-330-061
905		SCREW-MACHINE;PH FP M2.6X10 SWRCH10A GDL	60509-0103-00
912		SCREW-DAMPER;M2.0X7.0 SWCM 10(MFZN2-C)	67094-604-710
919	AC60-10004A	SCREW-MACHINE;BH WLP UP M3X8 SWRCH10A YEL	60504-0102-00
920	AC60-10007A	SCREW-TAPPING;BH(HEAD-M3)+B M2.6 L12 SWRCH18A YEL	60504-0121-00
952	AC60-30018A	WASHER-PLAIN;3.2X6X0.5 POLYSLIDER	67304-103-410
956	AC60-30007A	WASHER-SLIT;POLY T0.5 OD2.5 ID7	60534-0034-00
957	AC60-30008A	WASHER-SLIT;POLY T0.5 OD3.5 ID9	60534-0035-00
T201	AC66-10023A	REEL-DISK L ASSY;POM D30X-5	61574-0023-00
T202	AC66-10022A	REEL-DISK R ASSY;POM D X-5	61574-0021-00
T203	AC66-30112A	BRAKE-SUB L;PBT X-5	62613-0013-00
T204	AC66-30148A	BRAKE-SUB R ASSY;PBT LUPOX EG 5000H X-5	62614-0011-00
T207	AC66-30147A	BRAKE-MAIN L ASSY;PBT X-5	62614-0009-00
T208	AC66-30146A	BRAKE-MAIN R ASSY;PBT X-5	62614-0007-00
T209	AC61-60112A	SPRING-BRAKE MAIN;ES SUS 304WPB PT0.35 ID2.8 OD4.2	62724-0208-00
T210	AC66-20073A	GEAR-RELAY S ASSY;PEBAX M0.5 M48 SP	61474-0099-00
T211	AC66-20037A	GEAR-RELAY(T);PEBAX#6333 M0.5 Z41 SP X-5	61474-0095-00
T212	AC66-30073A	ARM-TENSION FULL ASSY;X-5	61543-0071-00
T216	AC61-60119A	SPRING-TENSION;ES SUS304WPB P10.35 ID2.1 L33.25	62724-0215-00
T217	AC66-30015A	LEVER-REC S/W;PBT #3300	61533-0098-00
T218		SPRING-REC S/W;ES SUS304 P10.23 D3.5 L14.8	62724-0217-00
T219	AC33-10003P	MAGNET-F/E HEAD;X-5 0020AK	66603-0005-00
T220		SLIDER-G/R ASSY(S);X-5	61643-0027-00
T221		SLIDER-G/R ASSY(T);X-5	61643-0029-00
T222		HEAD-CLEANER(ASSY);X-5	67083-0075-00
T223	AC66-20065A	SLIDER-RACK HOUSING;POM T10. BLK	61642-0022-00
T224	AC33-10001U	MAGNET-ACE HEAD ALL(ASSY);X-5	66603-0006-00
T225	AC66-80005A	SLIDER-PINCH;POM T2 NAT	61642-0024-00
T226	AC66-30014A	LEVER-REVIEW;ZYTEL T3.8 BLK	61533-0096-00
T227	AC66-30099A	ARM-REVIEW ASSY;PPS X-5	61544-0073-00
T228	AC66-30013A	LEVER-PINCH CAM;PBT6300T T5 X-5	61533-0094-00
T229	AC66-30003A	LEVER-PINCH COMP;PBT T13.3 X-5	61532-0093-00
T230	AC61-60116A	SPRING-PINCH(COMP);TS SWPB P11.0 ID6 OD8	62724-0212-00
T231		PRISM-LED;PMMA D5 1F-850	62713-0054-00
T232		SLIDER-PUSH;LUPOX 2150 T2 NTR	61643-0025-00
T233		SPRING-SLIDE PUSH;ES SUS304WPB P10.55 D3.55 L24.75	62724-0216-00
T234	AC59-90001B	UNIT-PINCH ROLLER(ASSY);X-5	67172-0174-00
T236	AC66-10010A	IDLER-ASSY;POM X-5	61603-0006-00
T237	AC61-40054A	STOPPER-TAPE;POM T2 NAT X-5 DECK	63383-0031-00
T238	AC61-60132A	SPRING-ARM PINCH;CS SUS30.4 WPB P110.4 ID7.1 OD7.9	62724-0239-00
T239		LEVEL-JOG(ASSY);PBT+SECC+SUM+POM+SUS T1 X-5	61533-0108-00
T300		CYLINDER ASSY;CX5-S2N	69020-124-027
		CYLINDER ASSY;CX5-D4N	69020-124-029
T302		MOTOR-CYLINDER;E20XL03	66823-0061-00
T303		HEAD-BRUSH(ASSY);SECC20/20+CARBON	67084-0076-00
T304		BASE-CYLINDER;ADC12 X-5	62201-0097-00

7-3.VCR Mechanical Parts(2) : Bottom View



Loc No.	New Code No.	Description & Specification	Old Code No.
902	AC60-10051A	SCREW-TAPPING;BH B M3 L8 FE FZY	60509-0063-00
918	AC60-10006A	SCREW-TAP TITE;BH+B P12.6 L7 SWRCH18A YEL X-5	60504-0120-00
922		SCREW- PH;+M3X3 FE FZY	67008-130-171
951	AC60-30025A	WASHER SLIT;P12.5XP15XT0.5	67334-600-310
952	AC60-30018A	WASHER PLAIN;3.2X6X5 POLYSLIDER	67304-103-410
956	AC60-30007A	WASHER-SLIT;POLY T0.5 OD2.5 ID7	60534-0034-00
B251	AC66-80001A	SLIDER-MAIN;PBT2002K T12.4 NAT	61641-0023-00
B252	AC66-20019A	GEAR-LOADING L ASSY;X-5	61473-0107-00
B253	AC66-20069A	GEAR-LOADING R ASSY;X-5	61473-0105-00
B254	AC61-60115A	SPRING-BRAKE CAPSTAN;ES SUS304WPB P10.4 ID1.7 OD2	62724-0211-00
B255	AC66-20004A	GEAR-MASTER;POM(M90-44)Z60 SP NAT	61472-0104-01
B256		MOTOR-D,D CAPSTAN;F2QTB04	66823-0059-00
B257		BELT-CAPSTAN;ECM-70 FR W2 T2 L88.6	61494-0009-00
B258	AC66-20066A	CLUTCH-ASSY	61453-0003-00
B259		LEVER-SLIDER PINCH;PBT T4 NAT	61533-1195-00
B260	AC66-20016A	GEAR-WORMWHEEL;POM M0.55 Z57 SP NAT	61473-0102-00
B261	AC66-30011A	LEVER-SHIFT;PBT T2.5	61533-0090-00
B262	AC66-30012A	LEVER-IDLER CHANGE;PBT-T3.3	61533-0091-00
B263	AC61-60111A	SPRING-LEVER SHIFT;TS SUS304 WPB P10.7 ID5.2 OD6.6	62724-0207-00
B264	AC59-90001A	UNIT-LOADING(ASSY);X-5	67172-0173-00
B265		MOTOR-LOADING ASSY;POM+RF370C X-5	66823-0060-00
B266	AC66-20039A	GEAR-WORM LOADING;PBT M0.55 WO NAT	61474-0103-00
B267	AC61-20224A	HOLDER-SHAFT;POM NAT	63324-0299-00
B268	AC66-30149A	BRAKE-CAPSTAN ASSY;POM X-5	62614-0014-00

7-4.VCR Housing Assembly



Loc No.	New Code No.	Description & Specification	Old Code No.
902	AC60-10051A	SCREW-TAPPING;BH B M3 L8 FE FZY	60509-0063-00
914	AC60-10067A	SCREW-TAP TITE;PMH+SM3 L8 SWCH18 YEL	60504-0128-00
H500		HOUSING-ASSY;X5FL2326A X-5	62052-0014-00
H810	AC61-10006A	CHASSIS-UPPER;SECC T1.0 NAT X-5	62202-0103-00
H520		HOLDER-CASSETTE(ASSY);SECC X5FL081A X-5	63322-0317-00
H521	AC61-20083A	HOLDER-CASSETTE;SECC NAT 1/8H HRB 50	63321-0314-00
H522	AC66-30018A	LEVER-LOCK(R);SECC T1.2	61533-0102-00
H523	AC66-30020A	LEVER-LOCK(L);SECC T1.2	61533-0104-00
H524	AC61-60121A	SPRING-LEVER LOCK;ES SUS 304WBPB P10.2 ID2.8 OD	62724-0220-00
H525	AC61-60121A	SPRING-LEVER LOCK;ES SUS 304WBPB P10.2 ID2.6 OD	62724-0220-00
H526	AC66-30019A	LEVER-KEY CASSETTE;POM(LUCEL N109-LD)NAT T2	61533-0103-00
H530		CHASSIS-SIDE "L" (ASSY);ABS X5FL0505A X-5	62203-0105-00
H531	AC61-10004A	CHASSIS-SIDE "L" ;ABS(HF-380) T10 BLK X-5	62201-0102-00
H532	AC66-30004A	LEVER-LIGHT SHUTTER;POM(LUCEL N109-LD)BLK T2	62532-0101-00
H533	AC61-60142A	SPRING-LIGHT SHUTTER;ES SUS 304WBPB P10.2 ID2.6	62724-0219-00
H535	AC66-30017A	LEVER-DOOR;POM(LUCEL N109P-LD)BLK T5	61533-0100-00
H540		CHASSIS-SIDE "R" (ASSY);ABS X5FL0505A X-5	62203-0104-00
H541	AC61-10003A	CHASSIS-SIDE "R" ;ABS(HF-380) T10 BLK X-5	62201-0101-00
H542	AC66-80008A	SLIDER-DAMPER;POM(LUCEL N109-LD)T4 BLK	61642-0032-00
H543	AC61-60120A	SPRING-SLIDE DAMPER;ES SUS 304WBPB P10.4 ID3.8	62724-0218-00
H544	AC66-30016A	LEVER-LID OPENER;POM(LUCEL N109-LD)NAT T5	61533-0099-00
H545	AC61-60123A	SPRING-LID OPENER;TS SWPB P10.55 ID8.9 OD10	62724-0222-00
H550		SHAFT-ARM(ASSY);SUM24L X5FL0405A X-5	61403-0073-00

## 8. Electric Parts List

### 8-1 SV-M30FK/BON <VTR>

Loc No.	OLD Part-No	NEW Part-No	Description	Specification	Remarks
ASSY-DECK					
	* DX5-R	AC96-10013H	ASSY-DECK;DX5-R,-		
ASSY-MAIN					
	* 69557-502-003	AC93-10008R	ASSY-MAIN;SV-M30FK/BON,MODULE DECK		
PCB	66029-1197-00	AC41-10061A	PCB-VIDEO;SV-M80Z,1V0,L1,T1.6*W250*L290		
SMPS/POWER					
BD01		66639-0003-00	FERRITE-BEAD INDUCTOR;NI-ZN FERRITE K150 B13857		
C02	61637-205-470	2401-001538	C-AL;47UF,20%,25V,GP,6.3X11,2.5MM,		
C04	A1104-0624	2401-001507	C-AL;47UF,20%,16V,GP,6.3X5,2.5MM,TP		
C06	61637-208-479	2401-001954	C-AL;4.7UF,20%,50V,GP,6.3X11MM,2.5M		
C07		A1104-0611	C-ELEC;CE 04 -40/85 16V T 100-M SRE 3.5X5 10UF		
C11	A1104-0792	2401-001978	C-AL;47UF,20%,25V,GP,6.3X5,-,TP		
C13		A1104-0611	C-ELEC;CE 04 -40/85 16V T 100-M SRE 3.5X5 10UF		
C14		A1100-0958	C-CERAMIC,CHIP;CK 0B Y5V 16V 103-Z 20X12 ECN053F10		
C16	61637-505-101	2401-000303	C-AL;100UF,20%,25V,GP,6.3*11,2.5MM,		
C17		A1100-0958	C-CERAMIC,CHIP;CK 0B Y5V 16V 103-Z 20X12 ECN053F10		
C19	A1100-0961	2203-001557	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,2012,2MM		
C21	A1104-0373	2401-001125	C-AL;330UF,20%,25V,WT,10X12.5,5MM,T		
C22	A1100-0961	2203-001557	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,2012,2MM		
C30	A1104-0792	2401-001978	C-AL;47UF,20%,25V,GP,6.3X5,-,TP		
! CN01	63349-604-200	3711-000596	CONNECTOR-HEADER;BOX,10P,1R,2MM,STRAIGHT,SN		
! CN01A	66439-0108-00	AC39-20004N	LEAD-CONNECTOR ASS'Y;400MM,51004,2.0MM,5264,1061#2		
! CN02	63349-604-220	3711-000666	CONNECTOR-HEADER;BOX,12P,1R,2MM,STRAIGHT,SN		
! CN02A	66439-0081-00	AC39-20003N	LEAD-CONNECTOR ASS'Y;300MM,51004,-,5264,1533#26,12		
! D01	A4104-0053	0402-000127	DIODE-RECTIFIER;1N4002,100V,1A,DO-41		
! D02	A4104-0053	0402-000127	DIODE-RECTIFIER;1N4002,100V,1A,DO-41		
! D03	A4104-0053	0402-000127	DIODE-RECTIFIER;1N4002,100V,1A,DO-41		
D06	A4104-0053	0402-000127	DIODE-RECTIFIER;1N4002,100V,1A,DO-41		
D07	A4104-0053	0402-000127	DIODE-RECTIFIER;1N4002,100V,1A,DO-41		
D08	62169-406-482	0401-000101	DIODE-SWITCHING;1N4148,100V,200MA,500MW,4NS,DO		
! IC01		62109-201-281	IC;KA7809		
! IC301	B4012-0568	1204-000330	IC-VIDEO PROCESS;LA7440,DIP,48P,600MIL,PLASTIC,		
L02		62429-833-101	COIL-PEAKING AXIAL;BAL04ST 101K		
Q01	62147-401-835	0501-000610	TR-SMALL SIGNAL;KSA928A,PNP,-30V,-30V,-2A,1W,T		
Q02	62137-701-013	0504-000203	TR-DIGITAL;KSR1008,NPN,300MW,47K-22K,TO-9		
Q03	62147-401-835	0501-000610	TR-SMALL SIGNAL;KSA928A,PNP,-30V,-30V,-2A,1W,T		
Q04	62137-701-012	0504-000118	TR-DIGITAL;KSR1003,NPN,300MW,22K-22K,TO-9		
Q05	62137-701-013	0504-000203	TR-DIGITAL;KSR1008,NPN,300MW,47K-22K,TO-9		
Q06	62137-302-441	0501-000616	TR-SMALL SIGNAL;KSC2328A,NPN,30V,30V,2A,1W,TO-		
Q07		62147-101-950	TRANSISTOR;KSA 643-Y TAPG		
Q08	62137-302-441	0501-000616	TR-SMALL SIGNAL;KSC2328A,NPN,30V,30V,2A,1W,TO-		
R01	61048-177-104	2001-000273	R-CARBON;100KOHM,5%,1/8W,AA,TP,1.8X3.2MM		
R02	A1006-0812	2004-000732	R-METAL;3.9KOHM,5%,1/4W,AA,TP,2.4X6.4MM		
R03	61048-177-222	2001-000449	R-CARBON;2.2KOHM,5%,1/8W,AA,TP,1.8X3.2MM		
R04	A1020-0320	2007-001589	R-CHIP,MELF;1KOHM,5%,1/8W,DB,BK,2012		
R05	A1020-0320	2007-001589	R-CHIP,MELF;1KOHM,5%,1/8W,DB,BK,2012		
R06	A1020-0320	2007-001589	R-CHIP,MELF;1KOHM,5%,1/8W,DB,BK,2012		
R07	A1020-0320	2007-001589	R-CHIP,MELF;1KOHM,5%,1/8W,DB,BK,2012		
R08	A1006-0804	2004-000571	R-METAL;220OHM,5%,1/4W,AA,TP,2.4X6.4MM		
R10	A1004-0357	2003-000259	R-METAL OXIDE;3.9OHM,5%,2W,AE,TP,6X16MM		
ZD01	62169-403-821	0403-000295	DIODE-ZENER;MTZ5.1B,5.1V,4.94-5.20V,500MW,		

Loc No.	OLD Part-No	NEW Part-No	Description	Specification	Remarks
<b>SERVO PARTS</b>					
C201	A1100-0961	2203-001557	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,2012,2MM		
C202		A1104-0611	C-ELEC;CE 04 -40/85 16V T 100-M SRE 3.5X5 10UF		
C203	A1100-0961	2203-001557	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,2012,2MM		
C204	A1100-0848	2203-001143	C-CERAMIC,CHIP;68NF,10%,50V,X7R,2012,2MM,TP		
C205	A1100-0961	2203-001557	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,2012,2MM		
C206	A1100-0135	2203-000979	C-CERAMIC,CHIP;47NF,10%,50V,X7R,2012,-,TP		
C207	A1100-0011	2203-000260	C-CERAMIC,CHIP;10NF,10%,50V,X7R,2012,-,TP		
C208	61407-117-104	2202-000797	C-CERAMIC,MLC-AXIAL;10NF,30%,16V,Y5P,3.5X19MM,-,TP		
C210	A1100-0961	2203-001557	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,2012,2MM		
C211	A1104-0609	2401-001250	C-AL;4.7UF,20%,35V,GP,4X5,2.5MM,TP		
C212		A1100-0958	C-CERAMIC,CHIP;CK OB Y5V 16V 103-Z 20X12 ECN053F10		
C213	A1100-0080	2203-001246	C-CERAMIC,CHIP;82PF,5%,50V,NPO,2012,-,TP		
C214	A1100-0080	2203-001246	C-CERAMIC,CHIP;82PF,5%,50V,NPO,2012,-,TP		
C215	A1100-0961	2203-001557	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,2012,2MM		
C216	A1100-0017	2203-000199	C-CERAMIC,CHIP;100NF,+80-20%,50V,Z5U,2012,-,T		
C217	A1100-0982	2203-001579	C-CERAMIC,CHIP;15NF,10%,50V,NPO,2012,2MM,TP		
C219		A1100-0960	C-CERAMIC,CHIP;CK OB Y5V 16V 223-Z 20X12 ECN153F22		
C220		A1104-0611	C-ELEC;CE 04 -40/85 16V T 100-M SRE 3.5X5 10UF		
C221	61407-117-104	2202-000797	C-CERAMIC,MLC-AXIAL;10NF,30%,16V,Y5P,3.5X19MM,-,TP		
C222	61407-117-104	2202-000797	C-CERAMIC,MLC-AXIAL;10NF,30%,16V,Y5P,3.5X19MM,-,TP		
C223	A1104-0792	2401-001978	C-AL;47UF,20%,25V,GP,6.3X5,-,TP		
C224	A1104-0792	2401-001978	C-AL;47UF,20%,25V,GP,6.3X5,-,TP		
C225	A1100-0444	2203-001591	C-CERAMIC,CHIP MELF;1NF,20%,25V,Y5S,2012,2MM,TP		
C226	A1100-0438	2203-001682	C-CERAMIC,CHIP MELF;68PF,10%,50V,Y5E,2012,2MM,TP		
C227	A1100-0438	2203-001682	C-CERAMIC,CHIP MELF;68PF,10%,50V,Y5E,2012,2MM,TP		
C231		A1104-0611	C-ELEC;CE 04 -40/85 16V T 100-M SRE 3.5X5 10UF		
C232	A1104-0609	2401-001250	C-AL;4.7UF,20%,35V,GP,4X5,2.5MM,TP		
C233	A1104-0610	2401-000591	C-AL;1UF,20%,50V,GP,3X5,2.5MM,TP		
C235	61617-404-330	2401-001169	C-AL;33UF,20%,16V,GP,6.3X7,2.5MM,		
C236	A1104-0624	2401-001507	C-AL;47UF,20%,16V,GP,6.3X5,2.5MM,TP		
C237	A1100-0961	2203-001557	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,2012,2MM		
C238	A1104-0792	2401-001978	C-AL;47UF,20%,25V,GP,6.3X5,-,TP		
C251	A1100-0010	2203-001537	C-CERAMIC,CHIP;1NF,10%,50V,X7R,2012,-,TP		
C252	A1100-0444	2203-001591	C-CERAMIC,CHIP MELF;1NF,20%,25V,Y5S,2012,2MM,TP		
C253	61407-117-102	2202-000795	C-CERAMIC,MLC-AXIAL;1NF,10%,50V,SL,3.5X19MM,-,TP		
C260	A1100-0961	2203-001557	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,2012,2MM		
C261	A1100-0017	2203-000199	C-CERAMIC,CHIP;100NF,+80-20%,50V,Z5U,2012,-,T		
C262	A1100-0961	2203-001557	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,2012,2MM		
C263	A1100-0961	2203-001557	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,2012,2MM		
C264	A1100-0961	2203-001557	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,2012,2MM		
C265	61407-117-102	2202-000795	C-CERAMIC,MLC-AXIAL;1NF,10%,50V,SL,3.5X19MM,-,TP		
C266		61407-117-101	C-CERAMIC,AXIAL;UP050F 104Z		
C267	A1100-0961	2203-001557	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,2012,2MM		
C268	A1100-0961	2203-001557	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,2012,2MM		
C269		61407-117-101	C-CERAMIC,AXIAL;UP050F 104Z		
C271	A1100-0444	2203-001591	C-CERAMIC,CHIP MELF;1NF,20%,25V,Y5S,2012,2MM,TP		
C271	A1100-0545	2203-001606	C-CERAMIC,CHIP MELF;220PF,10%,50V,Y5P,2012,2MM,TP		
C272	A1100-0444	2203-001591	C-CERAMIC,CHIP MELF;1NF,20%,25V,Y5S,2012,2MM,TP		
C272	A1100-0545	2203-001606	C-CERAMIC,CHIP MELF;220PF,10%,50V,Y5P,2012,2MM,TP		
CN201	B6010-0855	3711-002443	CONNECTOR-HEADER;BOX,9P,2R,2.0MM,STRAIGHT,SN		
CN202	B6010-0857	3711-002444	CONNECTOR-HEADER;BOX,6P,2R,2.0MM,STRAIGHT,SN		
D204	62169-406-482	0401-000101	DIODE-SWITCHING;1N4148,100V,200MA,500MW,4NS,DO		
D205	62169-406-482	0401-000101	DIODE-SWITCHING;1N4148,100V,200MA,500MW,4NS,DO		
D207	62169-406-482	0401-000101	DIODE-SWITCHING;1N4148,100V,200MA,500MW,4NS,DO		
D208	62169-406-482	0401-000101	DIODE-SWITCHING;1N4148,100V,200MA,500MW,4NS,DO		
IC201		A4008-1247	IC;KA8334B QFP 60PIN TRAY		
J210	A1020-0449	2007-001641	R-CHIP,MELF;00HM,5%,1/8W,DB,BK,2012		
J212	A1020-0449	2007-001641	R-CHIP,MELF;00HM,5%,1/8W,DB,BK,2012		
L201		62429-833-101	COIL-PEAKING AXIAL;BAL04ST 101K		
Q201		62137-103-380	TRANSISTOR;KSA 733-Y TAPG		



Loc No	OLD Part-No	NEW Part-No	Description	Specification	Remarks
Q202	A4050-0001	0501-000231	TR-SMALL SIGNAL;2SD1468SQ,NPN,30V,15V,1A,300MW		
Q203	62137-701-013	0504-000203	TR-DIGITAL;KSR1008,NPN,300MW,47K-22K,TO-9		
Q204	62137-701-013	0504-000203	TR-DIGITAL;KSR1008,NPN,300MW,47K-22K,TO-9		
Q205	A4050-0224	0504-000142	TR-DIGITAL;KSR2001,PNP,300MW,4.7K-4.7K,TO		
R202	A1020-0322	2007-001584	R-CHIP,MELF;2.2KOHM,5%,1/8W,DB,BK,2012		
R203	A1020-0344	2007-001637	R-CHIP,MELF;1.2KOHM,5%,1/8W,DB,BK,2012		
R204	A1020-0790	2007-001555	R-CHIP,MELF;27KOHM,5%,1/8W,DB,BK,2012		
R205	A1020-0824	2007-001505	R-CHIP,MELF;470OHM,5%,1/8W,DB,BK,2012		
R206	A1020-0343	2007-001586	R-CHIP,MELF;1MOHM,5%,1/8W,DB,BK,2012		
R207	A1020-0441	2007-001623	R-CHIP,MELF;10KOHM,5%,1/8W,DB,BK,2012		
R208	A1020-0320	2007-001589	R-CHIP,MELF;1KOHM,5%,1/8W,DB,BK,2012		
R209	A1020-0333	2007-001452	R-CHIP,MELF;82KOHM,5%,1/8W,DB,BK,2012		
R210	61048-177-363	2001-000679	R-CARBON;36KOHM,5%,1/8W,AA,TP,1.8X3.2MM		
R211	A1020-0442	2007-001572	R-CHIP,MELF;220KOHM,5%,1/8W,DB,BK,2012		
R212	A1020-0544	2007-001627	R-CHIP,MELF;100KOHM,5%,1/8W,DB,BK,2012		
R213	A1020-0825	2007-001503	R-CHIP,MELF;47KOHM,5%,1/8W,DB,BK,2012		
R214	A1020-0544	2007-001627	R-CHIP,MELF;100KOHM,5%,1/8W,DB,BK,2012		
R215	A1020-0823	2007-001476	R-CHIP,MELF;680KOHM,5%,1/8W,DB,BK,2012		
R216	A1020-0825	2007-001503	R-CHIP,MELF;47KOHM,5%,1/8W,DB,BK,2012		
R217	A1020-0343	2007-001586	R-CHIP,MELF;1MOHM,5%,1/8W,DB,BK,2012		
R218	A1020-0825	2007-001503	R-CHIP,MELF;47KOHM,5%,1/8W,DB,BK,2012		
R219	61048-177-564	2001-000850	R-CARBON;560KOHM,5%,1/8W,AA,TP,1.8X3.2MM		
R220	61048-177-393	2001-000702	R-CARBON;39KOHM,5%,1/8W,AA,TP,1.8X3.2MM		
R221	A1020-0343	2007-001586	R-CHIP,MELF;1MOHM,5%,1/8W,DB,BK,2012		
R222	A1020-0791	2007-001559	R-CHIP,MELF;270KOHM,5%,1/8W,DB,BK,2012		
R223	A1020-0343	2007-001586	R-CHIP,MELF;1MOHM,5%,1/8W,DB,BK,2012		
R224	61048-177-432	2001-000718	R-CARBON;4.3KOHM,5%,1/8W,AA,TP,1.8X3.2MM		
R225	A1020-0323	2007-001578	R-CHIP,MELF;2.7KOHM,5%,1/8W,DB,BK,2012		
R226	A1020-0791	2007-001559	R-CHIP,MELF;270KOHM,5%,1/8W,DB,BK,2012		
R227	A1020-0321	2007-001534	R-CHIP,MELF;33KOHM,5%,1/8W,DB,BK,2012		
R228	A1020-0412	2007-001124	R-CHIP;68KOHM,1%,1/10W,DA,TP,2012		
R233	A1020-0344	2007-001637	R-CHIP,MELF;1.2KOHM,5%,1/8W,DB,BK,2012		
R237	61048-177-683	Oct-01	R-CARBON;68KOHM,5%,1/8W,AA,TP,1.8X3.2MM		
R238	61048-177-102	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM		
R239	61048-177-102	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM		
R242	A1020-0441	2007-001623	R-CHIP,MELF;10KOHM,5%,1/8W,DB,BK,2012		
R243	61048-177-102	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM		
R246	A1020-0774	2007-001612	R-CHIP,MELF;12KOHM,5%,1/8W,DB,BK,2012		
R253	A1020-0789	2007-001557	R-CHIP,MELF;270OHM,5%,1/8W,DB,BK,2012		
R254	61048-177-103	2001-000290	R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM		
R255	61048-177-103	2001-000290	R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM		
R256	A1020-0825	2007-001503	R-CHIP,MELF;47KOHM,5%,1/8W,DB,BK,2012		
R257	A1020-0344	2007-001637	R-CHIP,MELF;1.2KOHM,5%,1/8W,DB,BK,2012		
R258	A1020-0789	2007-001557	R-CHIP,MELF;270OHM,5%,1/8W,DB,BK,2012		
R259	61048-177-513	2001-000837	R-CARBON;51KOHM,5%,1/8W,AA,TP,1.8X3.2MM		
R262	A1020-0431	2007-001568	R-CHIP,MELF;22KOHM,5%,1/8W,DB,BK,2012		
R263	A1020-0431	2007-001568	R-CHIP,MELF;22KOHM,5%,1/8W,DB,BK,2012		
VR201	B1054-0231	2103-000295	VR-SEMI;220KOHM,30%,1/10W,TP		
<b>VIDEO PARTS</b>					
C302	A1100-0961	2203-001557	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,2012,2MM		
C320	61617-404-470	2401-001511	C-AL;47UF,20%,16V,GP,6X7,2.5MM,		
C328	A1100-0070	2203-001639	C-CERAMIC,CHIP;36PF,5%,50V,X7R,2012,2MM,TP		
C329		A1100-0958	C-CERAMIC,CHIP;CK OB Y5V 16V 103-Z 20X12 ECN053F10		
C331	A1100-0628	2203-000540	C-CERAMIC,CHIP;200PF,5%,50V,CH,2012,-,TP		
C333	A1100-0071	2203-000840	C-CERAMIC,CHIP;390PF,5%,50V,NPO,2012,-,TP		
C334	A1100-0442	2203-001566	C-CERAMIC,CHIP MELF;10PF,0.25PF,50V,SL,2012,2MM,TP		
C335		A1100-0960	C-CERAMIC,CHIP;CK OB Y5V 16V 223-Z 20X12 ECN153F22		
C336	61637-206-100	2401-000460	C-AL;10UF,20%,35V,GP,5X11,2MM,		
C337		A1100-0960	C-CERAMIC,CHIP;CK OB Y5V 16V 223-Z 20X12 ECN153F22		
C338	61407-117-104	2202-000797	C-CERAMIC,MLC-AXIAL;10NF,30%,16V,Y5P,3.5X19MM,-,TP		

Loc No	OLD Part-No	NEW Part-No	Description	Specification	Remarks
C339	A1100-0961	2203-001557	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,2012,2MM		
C340	61637-204-470	2401-001975	C-AL;47UF,20%,16V,GP,5X11MM,2MM,BK		
C341	61637-206-100	2401-000460	C-AL;10UF,20%,35V,GP,5X11,2MM,		
C342	A1100-0717	2203-001673	C-CERAMIC,CHIP;5PF,0.5PF,50V,SL,2012,2MM,TP		
C343	A1104-0608	2401-001915	C-AL;1UF,20%,50V,GP,3X5,1MM,TP		
C344		A1100-0960	C-CERAMIC,CHIP;CK OB Y5V 16V 223-Z 20X12 ECN153F22		
C345	61407-117-228	2202-000807	C-CERAMIC,MLC-AXIAL;22NF,+80-20%,25V,Y5V,3.5X19MM,		
C346	A1100-0076	2203-001684	C-CERAMIC,CHIP;68PF,5%,50V,X7R,2012,2MM,TP		
C347	61407-117-104	2202-000797	C-CERAMIC,MLC-AXIAL;10NF,30%,16V,Y5P,3.5X19MM,-,TP		
C348	61407-117-104	2202-000797	C-CERAMIC,MLC-AXIAL;10NF,30%,16V,Y5P,3.5X19MM,-,TP		
C349	A1100-0135	2203-000979	C-CERAMIC,CHIP;47NF,10%,50V,X7R,2012,-,TP		
C350	A1100-0961	2203-001557	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,2012,2MM		
C351	61637-204-470	2401-001975	C-AL;47UF,20%,16V,GP,5X11MM,2MM,BK		
C352	A1104-0608	2401-001915	C-AL;1UF,20%,50V,GP,3X5,1MM,TP		
C353	61507-121-551	2301-000452	C-FILM,PEF;47NF,5%,50V,8X11X4.5MM,5MM,TP		
C354	A1104-0608	2401-001915	C-AL;1UF,20%,50V,GP,3X5,1MM,TP		
C355	61407-117-228	2202-000807	C-CERAMIC,MLC-AXIAL;22NF,+80-20%,25V,Y5V,3.5X19MM,		
C356		A1100-0958	C-CERAMIC,CHIP;CK OB Y5V 16V 103-Z 20X12 ECN053F10		
C357	A1100-0961	2203-001557	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,2012,2MM		
C358	A1100-0135	2203-000979	C-CERAMIC,CHIP;47NF,10%,50V,X7R,2012,-,TP		
C360	61637-206-100	2401-000460	C-AL;10UF,20%,35V,GP,5X11,2MM,		
C361	A1104-0608	2401-001915	C-AL;1UF,20%,50V,GP,3X5,1MM,TP		
C362	61407-117-184	2202-000164	C-CERAMIC,MLC-AXIAL;180PF,10%,50V,Y5P,3.5X19MM,-,T		
C363	A1104-0624	2401-001507	C-AL;47UF,20%,16V,GP,6.3X5,2.5MM,TP		
C364	61407-117-228	2202-000807	C-CERAMIC,MLC-AXIAL;22NF,+80-20%,25V,Y5V,3.5X19MM,		
C365	61637-206-100	2401-000460	C-AL;10UF,20%,35V,GP,5X11,2MM,		
C366	61637-206-100	2401-000460	C-AL;10UF,20%,35V,GP,5X11,2MM,		
C367		A1100-0958	C-CERAMIC,CHIP;CK OB Y5V 16V 103-Z 20X12 ECN053F10		
C368		A1100-0958	C-CERAMIC,CHIP;CK OB Y5V 16V 103-Z 20X12 ECN053F10		
C369		A1100-0958	C-CERAMIC,CHIP;CK OB Y5V 16V 103-Z 20X12 ECN053F10		
C370	61637-204-470	2401-001975	C-AL;47UF,20%,16V,GP,5X11MM,2MM,BK		
C372	61637-503-471	2401-001355	C-AL;470UF,20%,10V,GP,8X11.5,5MM,		
C373	A1100-0079	2203-001193	C-CERAMIC,CHIP;75PF,5%,50V,NPO,2012,-,TP		
C374	A1104-0608	2401-001915	C-AL;1UF,20%,50V,GP,3X5,1MM,TP		
C375	A1104-0608	2401-001915	C-AL;1UF,20%,50V,GP,3X5,1MM,TP		
C376	A1100-0961	2203-001557	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,2012,2MM		
C377	61637-204-470	2401-001975	C-AL;47UF,20%,16V,GP,5X11MM,2MM,BK		
C378	A1100-0961	2203-001557	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,2012,2MM		
C380	61637-206-100	2401-000460	C-AL;10UF,20%,35V,GP,5X11,2MM,		
C381		A1100-0972	C-CERAMIC,CHIP;CC OB SL 50V 270-J 20X12 UCN053SL27		
C382	A1100-0628	2203-000540	C-CERAMIC,CHIP;200PF,5%,50V,CH,2012,-,TP		
C386	61407-117-104	2202-000797	C-CERAMIC,MLC-AXIAL;10NF,30%,16V,Y5P,3.5X19MM,-,TP		
C387	61407-117-103	2202-000781	C-CERAMIC,MLC-AXIAL;100PF,10%,50V,Y5P,3.5X19MM,-,T		
C395	A1100-0961	2203-001557	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,2012,2MM		
D304	62169-406-482	0401-000101	DIODE-SWITCHING;1N4148,100V,200MA,500MW,4NS,DO		
D305	62169-406-482	0401-000101	DIODE-SWITCHING;1N4148,100V,200MA,500MW,4NS,DO		
D306	62169-406-482	0401-000101	DIODE-SWITCHING;1N4148,100V,200MA,500MW,4NS,DO		
D307	62169-406-482	0401-000101	DIODE-SWITCHING;1N4148,100V,200MA,500MW,4NS,DO		
D308	62169-406-482	0401-000101	DIODE-SWITCHING;1N4148,100V,200MA,500MW,4NS,DO		
D309	62169-406-482	0401-000101	DIODE-SWITCHING;1N4148,100V,200MA,500MW,4NS,DO		
D310	62169-406-482	0401-000101	DIODE-SWITCHING;1N4148,100V,200MA,500MW,4NS,DO		
D312	62169-406-482	0401-000101	DIODE-SWITCHING;1N4148,100V,200MA,500MW,4NS,DO		
D313	62169-406-482	0401-000101	DIODE-SWITCHING;1N4148,100V,200MA,500MW,4NS,DO		
D314	62169-406-482	0401-000101	DIODE-SWITCHING;1N4148,100V,200MA,500MW,4NS,DO		
D315	62169-406-482	0401-000101	DIODE-SWITCHING;1N4148,100V,200MA,500MW,4NS,DO		
D316	62169-406-482	0401-000101	DIODE-SWITCHING;1N4148,100V,200MA,500MW,4NS,DO		
D317	62169-406-482	0401-000101	DIODE-SWITCHING;1N4148,100V,200MA,500MW,4NS,DO		
D351	62169-406-482	0401-000101	DIODE-SWITCHING;1N4148,100V,200MA,500MW,4NS,DO		
IC303		B4012-0278	IC-LINEAR;LC89971 DIP		
IC304		B4012-0372	IC-LINEAR;LA7356 DIP SECAM DET		
J312	A1020-0449	2007-001641	R-CHIP,MELF;00HM,5%,1/8W,DB,BK,2012		

Loc No	OLD Part-No	NEW Part-No	Description	Specification	Remarks
J313	A1020-0449	2007-001641	R-CHIP,MELF;00HM,5%,1/8W,DB,BK,2012		
J315	A1020-0449	2007-001641	R-CHIP,MELF;00HM,5%,1/8W,DB,BK,2012		
J316	A1020-0449	2007-001641	R-CHIP,MELF;00HM,5%,1/8W,DB,BK,2012		
J333	A1020-0449	2007-001641	R-CHIP,MELF;00HM,5%,1/8W,DB,BK,2012		
J334	A1020-0449	2007-001641	R-CHIP,MELF;00HM,5%,1/8W,DB,BK,2012		
J335	A1020-0449	2007-001641	R-CHIP,MELF;00HM,5%,1/8W,DB,BK,2012		
J336	A1020-0449	2007-001641	R-CHIP,MELF;00HM,5%,1/8W,DB,BK,2012		
J337	A1020-0449	2007-001641	R-CHIP,MELF;00HM,5%,1/8W,DB,BK,2012		
L311		62429-833-101	COIL-PEAKING AXIAL;BAL04ST 101K		
L312		62427-020-330	COIL PEAKING.AXIAL;LAL02TB 330J TAPG		
L313		62429-833-101	COIL-PEAKING AXIAL;BAL04ST 101K		
L314		62429-833-101	COIL-PEAKING AXIAL;BAL04ST 101K		
L316		62429-833-101	COIL-PEAKING AXIAL;BAL04ST 101K		
L320		62427-020-680	COIL PEAKING.AXIAL;LAL02TB 680J TAPG		
L322		62427-020-470	COIL PEAKING.AXIAL;LAL02TB 470J TAPG		
Q304		62137-302-740	TRANSISTOR;KSC 945-Y TAPG		
Q305		62137-103-380	TRANSISTOR;KSA 733-Y TAPG		
Q307		62137-302-740	TRANSISTOR;KSC 945-Y TAPG		
Q308	62137-701-013	0504-000203	TR-DIGITAL;KSR1008,NPN,300MW,47K-22K,TO-9		
Q309	62137-701-013	0504-000203	TR-DIGITAL;KSR1008,NPN,300MW,47K-22K,TO-9		
Q310	62137-701-013	0504-000203	TR-DIGITAL;KSR1008,NPN,300MW,47K-22K,TO-9		
Q311		62137-302-740	TRANSISTOR;KSC 945-Y TAPG		
Q312		62137-302-740	TRANSISTOR;KSC 945-Y TAPG		
Q314	62137-701-013	0504-000203	TR-DIGITAL;KSR1008,NPN,300MW,47K-22K,TO-9		
Q317	A4050-0224	0504-000142	TR-DIGITAL;KSR2001,PNP,300MW,4.7K-4.7K,TO		
Q318	A4050-0224	0504-000142	TR-DIGITAL;KSR2001,PNP,300MW,4.7K-4.7K,TO		
Q319	62137-701-013	0504-000203	TR-DIGITAL;KSR1008,NPN,300MW,47K-22K,TO-9		
Q324	62137-701-013	0504-000203	TR-DIGITAL;KSR1008,NPN,300MW,47K-22K,TO-9		
Q330		62137-103-380	TRANSISTOR;KSA 733-Y TAPG		
Q331		62137-103-380	TRANSISTOR;KSA 733-Y TAPG		
R306	A1020-0322	2007-001584	R-CHIP,MELF;2.2KOHM,5%,1/8W,DB,BK,2012		
R319	A1020-0441	2007-001623	R-CHIP,MELF;10KOHM,5%,1/8W,DB,BK,2012		
R320	A1020-0441	2007-001623	R-CHIP,MELF;10KOHM,5%,1/8W,DB,BK,2012		
R322	A1020-0786	2007-001580	R-CHIP,MELF;2.4KOHM,5%,1/8W,DB,BK,2012		
R325	A1020-0323	2007-001578	R-CHIP,MELF;2.7KOHM,5%,1/8W,DB,BK,2012		
R326	A1020-0723	2007-001474	R-CHIP,MELF;680OHM,5%,1/8W,DB,BK,2012		
R327	A1020-0320	2007-001589	R-CHIP,MELF;1KOHM,5%,1/8W,DB,BK,2012		
R328	61048-177-273	2001-000563	R-CARBON;27KOHM,5%,1/8W,AA,TP,1.8X3.2MM		
R329	61048-177-223	2001-000522	R-CARBON;22KOHM,5%,1/8W,AA,TP,1.8X3.2MM		
R330	61048-177-103	2001-000290	R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM		
R331	61048-177-103	2001-000290	R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM		
R332	61048-177-182	2001-000258	R-CARBON;1.8KOHM,5%,1/8W,AA,TP,1.8X3.2M		
R333	A1020-0442	2007-001572	R-CHIP,MELF;220KOHM,5%,1/8W,DB,BK,2012		
R334	A1020-0441	2007-001623	R-CHIP,MELF;10KOHM,5%,1/8W,DB,BK,2012		
R335	61048-177-391	2007-001521	R-CARBON;390OHM,5%,1/8W,AA,TP,1.8X3.2MM		
R336	A1020-0325	2007-001629	R-CHIP,MELF;1.8KOHM,5%,1/8W,DB,BK,2012		
R337	A1020-0441	2007-001623	R-CHIP,MELF;10KOHM,5%,1/8W,DB,BK,2012		
R338	A1020-0344	2007-001637	R-CHIP,MELF;1.2KOHM,5%,1/8W,DB,BK,2012		
R339	61048-177-102	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM		
R341	61048-177-822	2001-000977	R-CARBON;8.2KOHM,5%,1/8W,AA,TP,1.8X3.2M		
R342	61048-177-102	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM		
R345	A1020-0441	2007-001623	R-CHIP,MELF;10KOHM,5%,1/8W,DB,BK,2012		
R350	A1020-0333	2007-001452	R-CHIP,MELF;82KOHM,5%,1/8W,DB,BK,2012		
R351	A1020-0320	2007-001589	R-CHIP,MELF;1KOHM,5%,1/8W,DB,BK,2012		
R352	A1020-0344	2007-001637	R-CHIP,MELF;1.2KOHM,5%,1/8W,DB,BK,2012		
R353	A1020-0441	2007-001623	R-CHIP,MELF;10KOHM,5%,1/8W,DB,BK,2012		
R359	61048-177-103	2001-000290	R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM		
R390	A1020-0825	2007-001503	R-CHIP,MELF;47KOHM,5%,1/8W,DB,BK,2012		
R391	A1020-0825	2007-001503	R-CHIP,MELF;47KOHM,5%,1/8W,DB,BK,2012		
R392	A1020-0774	2007-001612	R-CHIP,MELF;12KOHM,5%,1/8W,DB,BK,2012		
R393	A1020-0443	2007-001480	R-CHIP,MELF;620OHM,5%,1/8W,DB,BK,2012		

Loc No	OLD Part-No	NEW Part-No	Description	Specification	Remarks
R394	A1020-0812	2007-001460	R-CHIP,MELF;75OHM,5%,1/8W,DB,BK,2012		
R395	A1020-0811	2007-001472	R-CHIP,MELF;68KOHM,5%,1/8W,DB,BK,2012		
R397	61048-177-123	2001-000331	R-CARBON;12KOHM,5%,1/8W,AA,TP,1.8X3.2MM		
R398	A1020-0333	2007-001452	R-CHIP,MELF;82KOHM,5%,1/8W,DB,BK,2012		
R399	61048-177-102	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM		
XT301		64539-012-009	CRYSTAL;3.579545 HC/49U(8PF) TAPG		
XT302		64539-012-079	X-TAL;4.43 3619MHZ 8PPM TAPG		

#### PRE-AMP PARTS

C301		A1100-0958	C-CERAMIC,CHIP;CK OB Y5V 16V 103-Z 20X12 ECN053F10
C303		A1100-0958	C-CERAMIC,CHIP;CK OB Y5V 16V 103-Z 20X12 ECN053F10
C304		A1100-0958	C-CERAMIC,CHIP;CK OB Y5V 16V 103-Z 20X12 ECN053F10
C307		A1100-0958	C-CERAMIC,CHIP;CK OB Y5V 16V 103-Z 20X12 ECN053F10
C308		A1100-0958	C-CERAMIC,CHIP;CK OB Y5V 16V 103-Z 20X12 ECN053F10
C310		A1100-0958	C-CERAMIC,CHIP;CK OB Y5V 16V 103-Z 20X12 ECN053F10
C311		A1100-0958	C-CERAMIC,CHIP;CK OB Y5V 16V 103-Z 20X12 ECN053F10
C312		A1100-0958	C-CERAMIC,CHIP;CK OB Y5V 16V 103-Z 20X12 ECN053F10
C313	61407-117-104	2202-000797	C-CERAMIC,MLC-AXIAL;10NF,30%,16V,Y5P,3.5X19MM,-,TP
C314	A1104-0624	2401-001507	C-AL;47UF,20%,16V,GP,6.3X5,2.5MM,TP
C315	A1104-0608	2401-001915	C-AL;1UF,20%,50V,GP,3X5,1MM,TP
C316	61407-117-104	2202-000797	C-CERAMIC,MLC-AXIAL;10NF,30%,16V,Y5P,3.5X19MM,-,TP
C317		A1100-0958	C-CERAMIC,CHIP;CK OB Y5V 16V 103-Z 20X12 ECN053F10
C318		A1100-0958	C-CERAMIC,CHIP;CK OB Y5V 16V 103-Z 20X12 ECN053F10
C319		A1100-0958	C-CERAMIC,CHIP;CK OB Y5V 16V 103-Z 20X12 ECN053F10
C321	A1100-0036	2203-000316	C-CERAMIC,CHIP;120PF,5%,50V,NPO,2012,-,TP
C322	A1100-0036	2203-000316	C-CERAMIC,CHIP;120PF,5%,50V,NPO,2012,-,TP
C323	A1100-0436	2203-001644	C-CERAMIC,CHIP MELF;39PF,5%,50V,SL,2012,2MM,TP
C324	A1100-0507	2203-001589	C-CERAMIC,CHIP MELF;18PF,5%,50V,SL,2012,2MM,TP
C326	A1100-0445	2203-001659	C-CERAMIC,CHIP MELF;47PF,5%,50V,SL,2012,2MM,TP
C327	A1100-0068	2203-000787	C-CERAMIC,CHIP;330PF,5%,50V,NPO,2012,-,TP
C330	A1100-0436	2203-001644	C-CERAMIC,CHIP MELF;39PF,5%,50V,SL,2012,2MM,TP
C359	A1100-0041	2203-000408	C-CERAMIC,CHIP;180PF,5%,50V,NPO,2012,-,TP
C379		61407-117-101	C-CERAMIC,AXIAL;UP050F 104Z
C383	A1104-0624	2401-001507	C-AL;47UF,20%,16V,GP,6.3X5,2.5MM,TP
C388		A1100-0958	C-CERAMIC,CHIP;CK OB Y5V 16V 103-Z 20X12 ECN053F10
C389	61407-117-104	2202-000797	C-CERAMIC,MLC-AXIAL;10NF,30%,16V,Y5P,3.5X19MM,-,TP
C390	61407-117-104	2202-000797	C-CERAMIC,MLC-AXIAL;10NF,30%,16V,Y5P,3.5X19MM,-,TP
C391		A1100-0958	C-CERAMIC,CHIP;CK OB Y5V 16V 103-Z 20X12 ECN053F10
C392		A1100-0958	C-CERAMIC,CHIP;CK OB Y5V 16V 103-Z 20X12 ECN053F10
C393		A1100-0958	C-CERAMIC,CHIP;CK OB Y5V 16V 103-Z 20X12 ECN053F10
C394		A1100-0958	C-CERAMIC,CHIP;CK OB Y5V 16V 103-Z 20X12 ECN053F10
C396		A1100-0958	C-CERAMIC,CHIP;CK OB Y5V 16V 103-Z 20X12 ECN053F10
C397	A1100-0061	2203-001611	C-CERAMIC,CHIP;22PF,5%,50V,NPO,2012,2MM,TP
C398	A1100-0011	2203-000260	C-CERAMIC,CHIP;10NF,10%,50V,X7R,2012,-,TP
CN301	B6010-0852	3708-000320	CONNECTOR-FPC/FC/PIC;8P,1.25MM,STRAIGHT,SN
D301	62169-406-482	0401-000101	DIODE-SWITCHING;1N4148,100V,200MA,500MW,4NS,DO
D302	62169-406-482	0401-000101	DIODE-SWITCHING;1N4148,100V,200MA,500MW,4NS,DO
D303	62169-406-482	0401-000101	DIODE-SWITCHING;1N4148,100V,200MA,500MW,4NS,DO
D318	62169-406-482	0401-000101	DIODE-SWITCHING;1N4148,100V,200MA,500MW,4NS,DO
IC302		B4012-0452	IC-LINEAR;LA7416 DIP BULK
J310	A1020-0449	2007-001641	R-CHIP,MELF;0OHM,5%,1/8W,DB,BK,2012
J314	A1020-0449	2007-001641	R-CHIP,MELF;0OHM,5%,1/8W,DB,BK,2012
L302		62427-020-221	COIL PEAKING,AXIAL;LAL02TB 221J TAPG
L303		62427-020-680	COIL PEAKING,AXIAL;LAL02TB 680J TAPG
L304	62427-020-220	2701-000160	INDUCTOR-AXIAL;22UH,5%,2.4X3.4MM
L305		62427-020-270	COIL PEAKING,AXIAL;LAL02TB 270J TAPG
L307		62427-020-560	COIL PEAKING,AXIAL;LAL02TB 560J TAPG
L308	62427-020-220	2701-000160	INDUCTOR-AXIAL;22UH,5%,2.4X3.4MM
L309	62427-020-181	2701-000135	INDUCTOR-AXIAL;180UH,5%,2.4X3.4MM
L310	62427-020-150	2701-000131	INDUCTOR-AXIAL;15UH,5%,2.4X3.4MM
L317		62429-833-101	COIL-PEAKING AXIAL;BAL04ST 101K

Loc No	OLD Part-No	NEW Part-No	Description	Specification	Remarks
L319		62427-020-270	COIL PEAKING.AXIAL;LAL02TB 270J TAPG		
L321		62429-833-101	COIL-PEAKING AXIAL;BAL04ST 101K		
Q301		62137-302-740	TRANSISTOR;KSC 945-Y TAPG		
Q302		62137-302-740	TRANSISTOR;KSC 945-Y TAPG		
Q303		62137-302-740	TRANSISTOR;KSC 945-Y TAPG		
Q313	62137-701-013	0504-000203	TR-DIGITAL;KSR1008,NPN,300MW,47K-22K,TO-9		
Q315	62137-701-013	0504-000203	TR-DIGITAL;KSR1008,NPN,300MW,47K-22K,TO-9		
Q316	62137-701-013	0504-000203	TR-DIGITAL;KSR1008,NPN,300MW,47K-22K,TO-9		
Q320		62137-302-740	TRANSISTOR;KSC 945-Y TAPG		
Q321		62137-103-380	TRANSISTOR;KSA 733-Y TAPG		
Q322		62137-103-380	TRANSISTOR;KSA 733-Y TAPG		
Q323	62137-701-013	0504-000203	TR-DIGITAL;KSR1008,NPN,300MW,47K-22K,TO-9		
R301	A1020-0782	2007-001574	R-CHIP,MELF;20KOHM,5%,1/8W,DB,BK,2012		
R302	A1020-0782	2007-001574	R-CHIP,MELF;20KOHM,5%,1/8W,DB,BK,2012		
R304	A1020-0544	2007-001627	R-CHIP,MELF;100KOHM,5%,1/8W,DB,BK,2012		
R305		61048-177-563	R-CARBON;RD 1/8 T 563-J		
R307	A1020-0537	2007-001553	R-CHIP,MELF;2KOHM,5%,1/8W,DB,BK,2012		
R309	A1020-0334	2007-001521	R-CHIP,MELF;390OHM,5%,1/8W,DB,BK,2012		
R310	A1020-0443	2007-001480	R-CHIP,MELF;620OHM,5%,1/8W,DB,BK,2012		
R311	A1020-0443	2007-001480	R-CHIP,MELF;620OHM,5%,1/8W,DB,BK,2012		
R312	A1020-0789	2007-001557	R-CHIP,MELF;270OHM,5%,1/8W,DB,BK,2012		
R314	A1020-0723	2007-001474	R-CHIP,MELF;680OHM,5%,1/8W,DB,BK,2012		
R315	A1020-0336	2007-001488	R-CHIP,MELF;560OHM,5%,1/8W,DB,BK,2012		
R316	A1020-0345	2007-001591	R-CHIP,MELF;18KOHM,5%,1/8W,DB,BK,2012		
R317	A1020-0334	2007-001521	R-CHIP,MELF;390OHM,5%,1/8W,DB,BK,2012		
R318	A1020-0455	2007-001633	R-CHIP,MELF;1.5KOHM,5%,1/8W,DB,BK,2012		
R321	A1020-0336	2007-001488	R-CHIP,MELF;560OHM,5%,1/8W,DB,BK,2012		
R323	A1020-0334	2007-001521	R-CHIP,MELF;390OHM,5%,1/8W,DB,BK,2012		
R324	A1020-0441	2007-001623	R-CHIP,MELF;10KOHM,5%,1/8W,DB,BK,2012		
R343	A1020-0317	2007-001546	R-CHIP,MELF;3.9KOHM,5%,1/8W,DB,BK,2012		
R344	A1020-0322	2007-001584	R-CHIP,MELF;2.2KOHM,5%,1/8W,DB,BK,2012		
R349	A1020-0786	2007-001580	R-CHIP,MELF;2.4KOHM,5%,1/8W,DB,BK,2012		
R356	61048-177-102	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM		
R357	A1020-0321	2007-001534	R-CHIP,MELF;33KOHM,5%,1/8W,DB,BK,2012		
R358	A1020-0321	2007-001534	R-CHIP,MELF;33KOHM,5%,1/8W,DB,BK,2012		
R361	A1020-0336	2007-001488	R-CHIP,MELF;560OHM,5%,1/8W,DB,BK,2012		
R362	A1020-0787	2007-001561	R-CHIP,MELF;24KOHM,5%,1/8W,DB,BK,2012		
R363	A1020-0774	2007-001612	R-CHIP,MELF;12KOHM,5%,1/8W,DB,BK,2012		
R364	A1020-0320	2007-001589	R-CHIP,MELF;1KOHM,5%,1/8W,DB,BK,2012		
R365	A1020-0455	2007-001633	R-CHIP,MELF;1.5KOHM,5%,1/8W,DB,BK,2012		
R366	A1020-0537	2007-001553	R-CHIP,MELF;2KOHM,5%,1/8W,DB,BK,2012		
R367	A1020-0317	2007-001546	R-CHIP,MELF;3.9KOHM,5%,1/8W,DB,BK,2012		
R368	A1020-0317	2007-001546	R-CHIP,MELF;3.9KOHM,5%,1/8W,DB,BK,2012		
R369	A1020-0321	2007-001534	R-CHIP,MELF;33KOHM,5%,1/8W,DB,BK,2012		
R370	A1020-0321	2007-001534	R-CHIP,MELF;33KOHM,5%,1/8W,DB,BK,2012		
R371	A1020-0317	2007-001546	R-CHIP,MELF;3.9KOHM,5%,1/8W,DB,BK,2012		
R372	A1020-0537	2007-001553	R-CHIP,MELF;2KOHM,5%,1/8W,DB,BK,2012		
R373	A1020-0455	2007-001633	R-CHIP,MELF;1.5KOHM,5%,1/8W,DB,BK,2012		
R375	A1020-0320	2007-001589	R-CHIP,MELF;1KOHM,5%,1/8W,DB,BK,2012		
R377	A1020-0455	2007-001633	R-CHIP,MELF;1.5KOHM,5%,1/8W,DB,BK,2012		
<b>SERCAM PARTS</b>					
C3S01	A1100-0009	2203-000239	C-CERAMIC,CHIP;100PF,5%,50V,NPO,2012,-,TP		
C3S02		A1100-0958	C-CERAMIC,CHIP;CK OB Y5V 16V 103-Z 20X12 EGN053F10		
C3S03	61407-117-561	2202-000821	C-CERAMIC,MLC-AXIAL;560PF,10%,50V,Y5P,3.5X19MM,-,T		
C3S04	A1104-0711	2401-001325	C-AL;470NF,20%,50V,GP,3X5,2.5MM,TP		
C3S05		A1100-0958	C-CERAMIC,CHIP;CK OB Y5V 16V 103-Z 20X12 EGN053F10		
C3S06		A1100-0958	C-CERAMIC,CHIP;CK OB Y5V 16V 103-Z 20X12 EGN053F10		
C3S07	A1100-0961	2203-001557	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,2012,2MM		
C3S08	61637-204-470	2401-001975	C-AL;47UF,20%,16V,GP,5X11MM,2MM,BK		
C3S09	A1100-0961	2203-001557	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,2012,2MM		

Loc No	OLD Part-No	NEW Part-No	Description	Specification	Remarks
C3S10	A1100-0961	2203-001557	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,2012,2MM		
C3S11		A1100-0958	C-CERAMIC,CHIP;CK 0B Y5V 16V 103-Z 20X12 ECN053F10		
C3S12	A1100-0961	2203-001557	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,2012,2MM		
C3S13		A1100-0958	C-CERAMIC,CHIP;CK 0B Y5V 16V 103-Z 20X12 ECN053F10		
C3S14	A1100-0064	2203-001619	C-CERAMIC,CHIP;27PF,5%,50V,NPO,2012,2MM,TP		
C3S15	61637-204-470	2401-001975	C-AL;47UF,20%,16V,GP,5X11MM,2MM,BK		
C3S16	A1100-0961	2203-001557	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,2012,2MM		
C3S17	A1104-0624	2401-001507	C-AL;47UF,20%,16V,GP,6.3X5,2.5MM,TP		
C3S18	A1100-0020	2203-000892	C-CERAMIC,CHIP;4.7NF,10%,50V,X7R,2012,-,TP		
C3S19		A1100-0958	C-CERAMIC,CHIP;CK 0B Y5V 16V 103-Z 20X12 ECN053F10		
C3S20	61407-117-104	2202-000797	C-CERAMIC,MLC-AXIAL;10NF,30%,16V,Y5P,3.5X19MM,-,TP		
C3S21	A1100-0438	2203-001682	C-CERAMIC,CHIP MELF;68PF,10%,50V,Y5E,2012,2MM,TP		
C3S22	A1100-0080	2203-001246	C-CERAMIC,CHIP;82PF,5%,50V,NPO,2012,-,TP		
C3S23		A1100-0958	C-CERAMIC,CHIP;CK 0B Y5V 16V 103-Z 20X12 ECN053F10		
C3S24		A1100-0958	C-CERAMIC,CHIP;CK 0B Y5V 16V 103-Z 20X12 ECN053F10		
C3S25		A1100-0958	C-CERAMIC,CHIP;CK 0B Y5V 16V 103-Z 20X12 ECN053F10		
C3S26	A1100-0004	2203-001525	C-CERAMIC,CHIP;56PF,5%,50V,NPO,2012,-,TP		
C3S27	A1100-0961	2203-001557	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,2012,2MM		
D3S01	62169-406-482	0401-000101	DIODE-SWITCHING;1N4148,100V,200MA,500MW,4NS,DO		
IC3S01		B4012-0373	IC-LINEAR;BA7207S DIP		
IC3S02		B4012-0372	IC-LINEAR;LA7356 DIP SECAM DET		
J311	A1020-0449	2007-001641	R-CHIP,MELF;00HM,5%,1/8W,DB,BK,2012		
L3S01	62427-020-120	2701-000122	INDUCTOR-AXIAL;12UH,5%,2.4X3.4MM		
L3S02		62427-020-470	COIL PEAKING AXIAL;LAL02TB 470J TAPG		
L3S03		62429-833-101	COIL-PEAKING AXIAL;BAL04ST 101K		
L3S04	62427-020-101	2701-000113	INDUCTOR-AXIAL;100UH,5%,2.5X3.4MM		
Q3S01		62137-302-740	TRANSISTOR;KSC 945-Y TAPG		
Q3S03	62137-701-013	0504-000203	TR-DIGITAL;KSR1008,NPN,300MW,47K-22K,TO-9		
Q3S04		62137-103-380	TRANSISTOR;KSA 733-Y TAPG		
R3S01	A1020-0520	2007-001162	R-CHIP;7.5KOHM,5%,1/8W,DA,TP,3216		
R3S02	A1020-0520	2007-001162	R-CHIP;7.5KOHM,5%,1/8W,DA,TP,3216		
R3S04	A1020-0334	2007-001521	R-CHIP,MELF;390OHM,5%,1/8W,DB,BK,2012		
R3S05	A1020-0336	2007-001488	R-CHIP,MELF;560OHM,5%,1/8W,DB,BK,2012		
R3S06	A1020-0441	2007-001623	R-CHIP,MELF;10KOHM,5%,1/8W,DB,BK,2012		
R3S07	A1020-0544	2007-001627	R-CHIP,MELF;100KOHM,5%,1/8W,DB,BK,2012		
R3S08	A1020-0321	2007-001534	R-CHIP,MELF;33KOHM,5%,1/8W,DB,BK,2012		
R3S09	A1020-0774	2007-001612	R-CHIP,MELF;12KOHM,5%,1/8W,DB,BK,2012		
R3S10	61048-177-331	Mar-01	R-CARBON;330OHM,5%,1/8W,AA,TP,1.8X3.2MM		
R3S11	A1020-0786	2007-001580	R-CHIP,MELF;2.4KOHM,5%,1/8W,DB,BK,2012		
R3S12	A1020-0317	2007-001546	R-CHIP,MELF;3.9KOHM,5%,1/8W,DB,BK,2012		
R3S13	A1020-0320	2007-001589	R-CHIP,MELF;1KOHM,5%,1/8W,DB,BK,2012		
R3S14	A1020-0344	2007-001637	R-CHIP,MELF;1.2KOHM,5%,1/8W,DB,BK,2012		
R3S15	A1020-0321	2007-001534	R-CHIP,MELF;33KOHM,5%,1/8W,DB,BK,2012		
R3S16	A1020-0321	2007-001534	R-CHIP,MELF;33KOHM,5%,1/8W,DB,BK,2012		
R3S19	A1020-0431	2007-001568	R-CHIP,MELF;22KOHM,5%,1/8W,DB,BK,2012		
R3S20	A1020-0790	2007-001555	R-CHIP,MELF;27KOHM,5%,1/8W,DB,BK,2012		
R3S21	A1020-0455	2007-001633	R-CHIP,MELF;1.5KOHM,5%,1/8W,DB,BK,2012		
R3S22	A1020-0320	2007-001589	R-CHIP,MELF;1KOHM,5%,1/8W,DB,BK,2012		
R3S23	61048-177-243	2001-000539	R-CARBON;24KOHM,5%,1/8W,AA,TP,1.8X3.2MM		
VR3S01	B1054-0229	2103-000229	VR-SEMI;2.2KOHM,30%,1/10W,TOP		
VR3S02	B1054-0229	2103-000229	VR-SEMI;2.2KOHM,30%,1/10W,TOP		
SC301		62073-0258-00	SHIELD-CASE P/AMP(ASSY);3516ET T0.3 SIL SV-80Z		
SC302	62074-0216-00	AC63-40145A	SHIELD;SPTE,T0.3,-,SV-50,-		
<b>AUDIO PARTS</b>					
C501	61637-208-479	2401-001954	C-AL;4.7UF,20%,50V,GP,6.3X11MM,2.5M		
C502	A1104-0624	2401-001507	C-AL;47UF,20%,16V,GP,6.3X5,2.5MM,TP		
C503	61507-121-471	2301-000383	C-FILM,PEF;10NF,5%,50V,6X7X3.2MM,5MM,TP		
C504	A1100-0961	2203-001557	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,2012,2MM		
C505		61407-117-101	C-CERAMIC,AXIAL;UP050F 104Z		
C506		A1104-0640	C-ELEC;CE 04 -40/85 50V T 3R3-M SRE(4X5) P15		

Loc No	OLD Part-No	NEW Part-No	Description	Specification	Remarks
C507	A1104-0609	2401-001250	C-AL;4.7UF,20%,35V,GP,4X5,2.5MM,TP		
C508	61507-121-460	2301-000473	C-FILM,PEF;8.2NF,10%,50V,5.7X7X3MM,5MM,TP		
C509	A1100-0961	2203-001557	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,2012,2MM		
C510	A1104-0608	2401-001915	C-AL;1UF,20%,50V,GP,3X5,1MM,TP		
C511	61617-406-100	2401-000459	C-AL;10UF,20%,35V,GP,5*7,2MM,TP		
C512	A1104-0608	2401-001915	C-AL;1UF,20%,50V,GP,3X5,1MM,TP		
C513	61507-121-471	2301-000383	C-FILM,PEF;10NF,5%,50V,6X7X3.2MM,5MM,TP		
C514	61507-121-471	2301-000383	C-FILM,PEF;10NF,5%,50V,6X7X3.2MM,5MM,TP		
C515	A1104-0733	2401-001877	C-AL;47UF,20%,16V,-,8X11.5,3.5MM,TP		
C516	A1100-0024	2203-001214	C-CERAMIC,CHIP;8.2NF,10%,50V,X7R,2012,-,TP		
C517	A1100-0869	2203-001105	C-CERAMIC,CHIP;6.8NF,10%,50V,X7R,2012,-,TP		
C518	A1100-0869	2203-001105	C-CERAMIC,CHIP;6.8NF,10%,50V,X7R,2012,-,TP		
C524	A1100-0010	2203-001537	C-CERAMIC,CHIP;1NF,10%,50V,X7R,2012,-,TP		
C525	A1100-0047	2203-000533	C-CERAMIC,CHIP;2.7NF,10%,50V,X7R,2012,-,TP		
C526	A1100-0961	2203-001557	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,2012,2MM		
C527		B1102-0113	C-FILM;CQ 922 P 100V 473-J CQ298PVT473J ECQV473JZ3		
C528	A1100-0961	2203-001557	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,2012,2MM		
C532		A1100-0563	C-CERAMIC;CK OA Y 50V T 152-N		
C550	A1104-0624	2401-001507	C-AL;47UF,20%,16V,GP,6.3X5,2.5MM,TP		
CN501	B6010-0861	3708-000481	CONNECTOR-FPC/FC/PIC;6P,1.25MM,STRAIGHT,SN		
CN502		B6010-0436	CONNECTOR-WAFER;TMC-E02X-A1 BLK STICK		
D501	62169-406-482	0401-000101	DIODE-SWITCHING;1N4148,100V,200MA,500MW,4NS,DO		
D503	62169-406-482	0401-000101	DIODE-SWITCHING;1N4148,100V,200MA,500MW,4NS,DO		
FL501		A1208-0004	TRANS-OSC;126QN-KS442321YCT 6.3X5MM 920UH BIAS BLK		
IC501		B4012-0273	IC-LINEAR;LA7286 DIP		
J502	A1020-0449	2007-001641	R-CHIP,MELF;00HM,5%,1/8W,DB,BK,2012		
J503	A1020-0449	2007-001641	R-CHIP,MELF;00HM,5%,1/8W,DB,BK,2012		
L501		62429-833-101	COIL-PEAKING AXIAL;BAL04ST 101K		
L502	62427-813-153	2702-000120	INDUCTOR-RADIAL;15MH,5%,6.2X7.4MM		
L503		62429-833-101	COIL-PEAKING AXIAL;BAL04ST 101K		
Q501	62137-702-020	0501-000010	TR-SMALL SIGNAL;KSC1008-Y,NPN,80V,60V,700MA,80		
Q502	62137-701-013	0504-000203	TR-DIGITAL;KSR1008,NPN,300MW,47K-22K,TO-9		
Q503	62137-701-013	0504-000203	TR-DIGITAL;KSR1008,NPN,300MW,47K-22K,TO-9		
Q504	62137-701-013	0504-000203	TR-DIGITAL;KSR1008,NPN,300MW,47K-22K,TO-9		
Q505		62147-101-950	TRANSISTOR;KSA 643-Y TAPG		
R501	61048-177-131	2001-000343	R-CARBON;1300HM,5%,1/8W,AA,TP,1.8X3.2MM		
R502	61048-177-101	2001-000281	R-CARBON;1000HM,5%,1/8W,AA,TP,1.8X3.2MM		
R503	61048-177-334	2001-000645	R-CARBON;330KOHM,5%,1/8W,AA,TP,1.8X3.2M		
R504	61048-177-103	2001-000290	R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM		
R505	61048-177-472	2001-000734	R-CARBON;4.7KOHM,5%,1/8W,AA,TP,1.8X3.2M		
R506	A1020-0606	2007-000247	R-CHIP;1.5MOHM,1%,1/16W,DA,TP,1608		
R507	61048-177-433	2001-000766	R-CARBON;43KOHM,5%,1/8W,AA,TP,1.8X3.2MM		
R508	A1020-0441	2007-001623	R-CHIP,MELF;10KOHM,5%,1/8W,DB,BK,2012		
R509		A1020-0485	R-CHIP;RH 1/8 CS 103-J 20X12 RD3A2BY103J		
R510	A1020-0543	2007-001625	R-CHIP,MELF;100OHM,5%,1/8W,DB,BK,3216		
R511	61048-177-362	2001-000605	R-CARBON;3.6KOHM,5%,1/8W,AA,TP,1.8X3.2M		
R512	A1020-0537	2007-001553	R-CHIP,MELF;2KOHM,5%,1/8W,DB,BK,2012		
R513	61048-177-103	2001-000290	R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM		
R515	A1020-0437	2007-000740	R-CHIP;30KOHM,5%,1/8W,DA,TP,3216		
R516	A1020-0427	2007-000882	R-CHIP;4.7OHM,5%,1/16W,DA,TP,1608		
R517	61048-177-472	2001-000734	R-CARBON;4.7KOHM,5%,1/8W,AA,TP,1.8X3.2M		
R518	61048-177-470	2001-000793	R-CARBON;47OHM,5%,1/8W,AA,TP,1.8X3.2MM		
R519	A1020-0444	2007-001593	R-CHIP,MELF;180OHM,5%,1/8W,DB,BK,2012		
R520	A1020-0441	2007-001623	R-CHIP,MELF;10KOHM,5%,1/8W,DB,BK,2012		
R521	61048-177-122	2001-000044	R-CARBON;1.2KOHM,5%,1/4W,AA,TP,2.4X6.4M		
R530	61048-177-102	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM		
R531	A1020-0317	2007-001546	R-CHIP,MELF;3.9KOHM,5%,1/8W,DB,BK,2012		
R535	A1020-0320	2007-001589	R-CHIP,MELF;1KOHM,5%,1/8W,DB,BK,2012		
R536	A1020-0320	2007-001589	R-CHIP,MELF;1KOHM,5%,1/8W,DB,BK,2012		
R537	A1004-0445	2003-000173	R-METAL OXIDE;150OHM,5%,2W,AE,TP,6X16MM		

Loc No	OLD Part-No	NEW Part-No	Description	Specification	Remarks
<b>SYSTEM CONTROL PARTS</b>					
BD601		66639-0003-00	FERRITE-BEAD INDUCTOR;NI-ZN FERRITE K150 B13857		
BD602		66639-0003-00	FERRITE-BEAD INDUCTOR;NI-ZN FERRITE K150 B13857		
C601		A1100-0958	C-CERAMIC,CHIP;CK 08 Y5V 16V 103-Z 20X12 ECN053F10		
C602		A1100-0958	C-CERAMIC,CHIP;CK 08 Y5V 16V 103-Z 20X12 ECN053F10		
C603	A1100-0444	2203-001591	C-CERAMIC,CHIP MELF;1NF,20%,25V,Y5S,2012,2MM,TP		
C604	A1100-0444	2203-001591	C-CERAMIC,CHIP MELF;1NF,20%,25V,Y5S,2012,2MM,TP		
C605	61407-117-228	2202-000807	C-CERAMIC,MLC-AXIAL;22NF,+80-20%,25V,Y5V,3.5X19MM,		
C606		A1104-0611	C-ELEC;CE 04 -40/85 16V T 100-M SRE 3.5X5 10UF		
C607	61407-117-104	2202-000797	C-CERAMIC,MLC-AXIAL;10NF,30%,16V,Y5P,3.5X19MM,-,TP		
C609		61407-117-101	C-CERAMIC,AXIAL;UP050F 104Z		
C610		61407-117-101	C-CERAMIC,AXIAL;UP050F 104Z		
C611	61617-404-101	2401-001893	C-AL;100UF,20%,16V,-,8X9MM,2.5MM,BK		
C612	A1100-0961	2203-001557	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,2012,2MM		
C613		A1100-0960	C-CERAMIC,CHIP;CK 08 Y5V 16V 223-Z 20X12 ECN153F22		
C614		A1100-0960	C-CERAMIC,CHIP;CK 08 Y5V 16V 223-Z 20X12 ECN153F22		
C615	61407-117-104	2202-000797	C-CERAMIC,MLC-AXIAL;10NF,30%,16V,Y5P,3.5X19MM,-,TP		
C616	A1104-0480	2401-001374	C-AL;470UF,20%,16V,WT,10X12.5,2.5MM		
C617		A1100-0960	C-CERAMIC,CHIP;CK 08 Y5V 16V 223-Z 20X12 ECN153F22		
C618		61407-117-101	C-CERAMIC,AXIAL;UP050F 104Z		
C619	A1100-0961	2203-001557	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,2012,2MM		
C620		A1104-0640	C-ELEC;CE 04 -40/85 50V T 3R3-M SRE(4X5) P15		
C621		A1104-0611	C-ELEC;CE 04 -40/85 16V T 100-M SRE 3.5X5 10UF		
C622	A1100-0443	2203-001580	C-CERAMIC,CHIP MELF;15PF,5%,50V,SL,2012,2MM,TP		
C623	A1100-0443	2203-001580	C-CERAMIC,CHIP MELF;15PF,5%,50V,SL,2012,2MM,TP		
C624	61407-117-104	2202-000797	C-CERAMIC,MLC-AXIAL;10NF,30%,16V,Y5P,3.5X19MM,-,TP		
C625		61637-604-221	C-ELEC;CEAP 16V 220M SV(8X9)		
C626	A1100-0442	2203-001566	C-CERAMIC,CHIP MELF;10PF,0.25PF,50V,SL,2012,2MM,TP		
C627	A1100-0442	2203-001566	C-CERAMIC,CHIP MELF;10PF,0.25PF,50V,SL,2012,2MM,TP		
C630	A1100-0919	2203-000417	C-CERAMIC,CHIP;18NF,10%,50V,X7R,2012,-,TP		
CN602	63349-603-060	3711-001061	CONNECTOR-HEADER;BOX,6P,1R,2MM,ANGLE,SN		
D601	A4104-0053	0402-000127	DIODE-RECTIFIER;1N4002,100V,1A,DO-41		
D602	62169-406-482	0401-000101	DIODE-SWITCHING;1N4148,100V,200MA,500MW,4NS,DO		
D603	62169-406-482	0401-000101	DIODE-SWITCHING;1N4148,100V,200MA,500MW,4NS,DO		
D604	62169-406-482	0401-000101	DIODE-SWITCHING;1N4148,100V,200MA,500MW,4NS,DO		
D605	A4104-0053	0402-000127	DIODE-RECTIFIER;1N4002,100V,1A,DO-41		
D606	62169-406-482	0401-000101	DIODE-SWITCHING;1N4148,100V,200MA,500MW,4NS,DO		
D608	62169-406-482	0401-000101	DIODE-SWITCHING;1N4148,100V,200MA,500MW,4NS,DO		
D610	62169-406-482	0401-000101	DIODE-SWITCHING;1N4148,100V,200MA,500MW,4NS,DO		
D611	62169-406-482	0401-000101	DIODE-SWITCHING;1N4148,100V,200MA,500MW,4NS,DO		
D613	62169-406-482	0401-000101	DIODE-SWITCHING;1N4148,100V,200MA,500MW,4NS,DO		
D615	62169-406-482	0401-000101	DIODE-SWITCHING;1N4148,100V,200MA,500MW,4NS,DO		
D616	62169-406-482	0401-000101	DIODE-SWITCHING;1N4148,100V,200MA,500MW,4NS,DO		
D617	62169-406-482	0401-000101	DIODE-SWITCHING;1N4148,100V,200MA,500MW,4NS,DO		
IC601		67199-0334-00	MICOM;HD6433724F SV-M80Z QFP		
IC602		62119-401-300	IC;KA8301(N.M)		
IC603		B4008-0972	IC-RESET;PST572K TO-92 R59-1766 2.5V		
IC604		62119-103-648	IC;LA7213		
J602	A1020-0449	2007-001641	R-CHIP,MELF;00HM,5%,1/8W,DB,BK,2012		
J604	A1020-0449	2007-001641	R-CHIP,MELF;00HM,5%,1/8W,DB,BK,2012		
J606	A1020-0449	2007-001641	R-CHIP,MELF;00HM,5%,1/8W,DB,BK,2012		
J610	A1020-0449	2007-001641	R-CHIP,MELF;00HM,5%,1/8W,DB,BK,2012		
L601		62429-833-101	COIL-PEAKING AXIAL;BAL04ST 101K		
LD601		B4150-0286	LED-INFRARED;GL381J1 YEL 950NM/3.5V		
LD601A		63323-0313-00	HOLDER-LED;POM		
LD602		A4150-0074	LED-LAMP;DL-1LR RED		
LD603		A4150-0074	LED-LAMP;DL-1LR RED		
LD604		A4150-0074	LED-LAMP;DL-1LR RED		
LD60A	63324-0351-00	AC61-20230A	HOLDER;ABS94HB,T2,BLK,31*13.5,-,-		
PT601		B4161-0036	PHOTO-INTERRUPTER;SG-105LF3 ST		
PT601A		63323-0312-00	HOLDER-PHOTO;POM		



Loc No	OLD Part-No	NEW Part-No	Description	Specification	Remarks
PT602		B4161-0036	PHOTO-INTERRUPTER;SG-105LF3 ST		
PT602A		63323-0312-00	HOLDER-PHOTO;PCM		
Q601		62137-103-380	TRANSISTOR;KSA 733-Y TAPG		
Q602	62137-701-013	0504-000203	TR-DIGITAL;KSR1008,NPN,300MM,47K-22K,TO-9		
Q603	62137-701-013	0504-000203	TR-DIGITAL;KSR1008,NPN,300MM,47K-22K,TO-9		
Q607		62137-302-740	TRANSISTOR;KSC 945-Y TAPG		
Q608		62137-302-740	TRANSISTOR;KSC 945-Y TAPG		
Q609	62137-701-012	0504-000118	TR-DIGITAL;KSR1003,NPN,300MM,22K-22K,TO-9		
Q610	62137-701-012	0504-000118	TR-DIGITAL;KSR1003,NPN,300MM,22K-22K,TO-9		
Q611	62137-701-012	0504-000118	TR-DIGITAL;KSR1003,NPN,300MM,22K-22K,TO-9		
R601	A1020-0795	2007-001526	R-CHIP,MELF;36KOHM,5%,1/8W,DB,BK,2012		
R602	A1020-0443	2007-001480	R-CHIP,MELF;620OHM,5%,1/8W,DB,BK,2012		
R603	A1020-0321	2007-001534	R-CHIP,MELF;33KOHM,5%,1/8W,DB,BK,2012		
R604	A1020-0442	2007-001572	R-CHIP,MELF;220KOHM,5%,1/8W,DB,BK,2012		
R605	61048-177-391	May-01	R-CARBON;390OHM,5%,1/8W,AA,TP,1.8X3.2MM		
R606	A1020-0442	2007-001572	R-CHIP,MELF;220KOHM,5%,1/8W,DB,BK,2012		
R607	A1020-0442	2007-001572	R-CHIP,MELF;220KOHM,5%,1/8W,DB,BK,2012		
R608	A1020-0442	2007-001572	R-CHIP,MELF;220KOHM,5%,1/8W,DB,BK,2012		
R609	A1020-0334	2007-001521	R-CHIP,MELF;390OHM,5%,1/8W,DB,BK,2012		
R610	61048-177-683	2001-000010	R-CARBON;68KOHM,5%,1/8W,AA,TP,1.8X3.2MM		
R611	61048-177-511	2001-000832	R-CARBON;510OHM,5%,1/8W,AA,TP,1.8X3.2MM		
R613	A1004-0357	2003-000259	R-METAL OXIDE;3.9OHM,5%,2W,AE,TP,6X16MM		
R614	A1020-0320	2007-001589	R-CHIP,MELF;1KOHM,5%,1/8W,DB,BK,2012		
R615	A1020-0320	2007-001589	R-CHIP,MELF;1KOHM,5%,1/8W,DB,BK,2012		
R616	A1020-0335	2007-001513	R-CHIP,MELF;4.7KOHM,5%,1/8W,DB,BK,2012		
R617	A1020-0335	2007-001513	R-CHIP,MELF;4.7KOHM,5%,1/8W,DB,BK,2012		
R618	A1020-0315	2007-001009	R-CHIP;51KOHM,5%,1/10W,DA,TP,2012		
R619	A1020-0344	2007-001637	R-CHIP,MELF;1.2KOHM,5%,1/8W,DB,BK,2012		
R620	A1020-0335	2007-001513	R-CHIP,MELF;4.7KOHM,5%,1/8W,DB,BK,2012		
R621	A1020-0441	2007-001623	R-CHIP,MELF;10KOHM,5%,1/8W,DB,BK,2012		
R622	A1006-0800	2004-000336	R-METAL;150OHM,5%,1/4W,AA,TP,2.4X6.4MM		
R623	A1006-0800	2004-000336	R-METAL;150OHM,5%,1/4W,AA,TP,2.4X6.4MM		
R624	A1006-0800	2004-000336	R-METAL;150OHM,5%,1/4W,AA,TP,2.4X6.4MM		
R625	A1020-0441	2007-001623	R-CHIP,MELF;10KOHM,5%,1/8W,DB,BK,2012		
R626	A1020-0441	2007-001623	R-CHIP,MELF;10KOHM,5%,1/8W,DB,BK,2012		
R627	A1020-0441	2007-001623	R-CHIP,MELF;10KOHM,5%,1/8W,DB,BK,2012		
R628	A1020-0441	2007-001623	R-CHIP,MELF;10KOHM,5%,1/8W,DB,BK,2012		
R629	61048-177-102	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM		
R631	A1020-0343	2007-001586	R-CHIP,MELF;1MOHM,5%,1/8W,DB,BK,2012		
R632	A1020-0320	2007-001589	R-CHIP,MELF;1KOHM,5%,1/8W,DB,BK,2012		
R633	61048-177-102	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM		
R634	61048-177-102	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM		
R635	61048-177-102	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM		
R636	61048-177-102	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM		
R637	61048-177-102	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM		
R638	61048-177-102	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM		
R639	61048-177-102	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM		
R640	61048-177-102	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM		
R641	61048-177-102	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM		
R642	61048-177-102	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM		
R644	61048-177-102	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM		
R645	61048-177-102	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM		
R646	61048-177-102	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM		
R647	61048-177-102	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM		
R648	61048-177-102	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM		
R649	61048-177-102	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM		
R650	61048-177-102	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM		
R651	61048-177-102	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM		
R652	61048-177-102	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM		
R653	61048-177-102	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM		
R654	61048-177-101	2001-000281	R-CARBON;100OHM,5%,1/8W,AA,TP,1.8X3.2MM		

Loc No	OLD Part-No	NEW Part-No	Description	Specification	Remarks
R655	61048-177-102	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM		
R656	61048-177-102	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM		
R657	61048-177-102	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM		
R658	61048-177-102	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM		
R659	61048-177-102	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM		
R660	61048-177-102	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM		
R661	61048-177-102	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM		
R662	61048-177-102	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM		
R664	61048-177-102	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM		
R665	61048-177-101	2001-000281	R-CARBON;100OHM,5%,1/8W,AA,TP,1.8X3.2MM		
R666	A1020-0320	2007-001589	R-CHIP,MELF;1KOHM,5%,1/8W,DB,BK,2012		
R667	A1020-0320	2007-001589	R-CHIP,MELF;1KOHM,5%,1/8W,DB,BK,2012		
R668	61048-177-102	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM		
R669	A1020-0798	2007-001519	R-CHIP,MELF;39KOHM,5%,1/8W,DB,BK,2012		
R670	61048-177-433	2001-000766	R-CARBON;43KOHM,5%,1/8W,AA,TP,1.8X3.2MM		
R671	61048-177-102	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM		
R672	61048-177-102	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM		
R673	61048-177-102	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM		
R674	61048-177-102	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM		
R675	61048-177-102	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM		
R676	61048-177-203	2001-000009	R-CARBON;20KOHM,5%,1/8W,AA,TP,1.8X3.2MM		
R677	A1020-0782	2007-001574	R-CHIP,MELF;20KOHM,5%,1/8W,DB,BK,2012		
R678	A1020-0782	2007-001574	R-CHIP,MELF;20KOHM,5%,1/8W,DB,BK,2012		
R679	61048-177-102	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM		
R680	61048-177-102	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM		
R681	61048-177-102	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM		
R682	61048-177-102	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM		
R683	61048-177-102	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM		
R684	61048-177-102	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM		
R685	61048-177-102	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM		
R686	61048-177-102	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM		
R688	A1020-0324	2007-001536	R-CHIP,MELF;330OHM,5%,1/8W,DB,BK,2012		
R689	61079-917-204	2007-000532	R-CHIP;200KOHM,5%,1/10W,DA,TP,2012		
R690	61048-177-203	2001-000009	R-CARBON;20KOHM,5%,1/8W,AA,TP,1.8X3.2MM		
R691	A1020-0335	2007-001513	R-CHIP,MELF;4.7KOHM,5%,1/8W,DB,BK,2012		
R692	61048-177-270	2001-000568	R-CARBON;27OHM,5%,1/8W,AA,TP,1.8X3.2MM		
R693	61048-177-102	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM		
R694	61048-177-102	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM		
R695	61048-177-102	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM		
R696	61048-177-102	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM		
R697	A1020-0320	2007-001589	R-CHIP,MELF;1KOHM,5%,1/8W,DB,BK,2012		
R699	A1020-0343	2007-001586	R-CHIP,MELF;1MOHM,5%,1/8W,DB,BK,2012		
RM601		A1294-0035	MODULE-REMOCON;ORC-50VF 38KHZ 940 ST		
S601		B4064-0007	TR-PHOTO;PT495F 35V 20MA 50MW 860NM/1V 20DEG		
S601A		63322-0356-00	HOLDER-TR;POM BLK X-5 MODULE		
S602		B4064-0007	TR-PHOTO;PT495F 35V 20MA 50MW 860NM/1V 20DEG		
S602A		63322-0356-00	HOLDER-TR;POM BLK X-5 MODULE		
SW601		66203-0020-00	SWITCH-PROGRAM;MXS00280MLB0		
SW602	B3018-0012	3404-000135	SWITCH-TACT;12V,50MA,160+-50GF,7.4X7.1MM,-		
SW603	B3018-0012	3404-000135	SWITCH-TACT;12V,50MA,160+-50GF,7.4X7.1MM,-		
SW604	B3018-0012	3404-000135	SWITCH-TACT;12V,50MA,160+-50GF,7.4X7.1MM,-		
SW605	B3018-0012	3404-000135	SWITCH-TACT;12V,50MA,160+-50GF,7.4X7.1MM,-		
SW606	B3018-0012	3404-000135	SWITCH-TACT;12V,50MA,160+-50GF,7.4X7.1MM,-		
SW607	B3018-0012	3404-000135	SWITCH-TACT;12V,50MA,160+-50GF,7.4X7.1MM,-		
SW608	B3018-0012	3404-000135	SWITCH-TACT;12V,50MA,160+-50GF,7.4X7.1MM,-		
SW609	B3018-0012	3404-000135	SWITCH-TACT;12V,50MA,160+-50GF,7.4X7.1MM,-		
SW610	B3018-0012	3404-000135	SWITCH-TACT;12V,50MA,160+-50GF,7.4X7.1MM,-		
XT601		B1283-0036	RESONATOR-CERAMIC;8MHZ EFOEC8004T4 3/CN J TAPG		
XT602		64539-021-009	CRYSTAL;32.768KHZ		

# MODULE/DECK DISSIMILAR PARTS (SV-M80Z)

NO.	DESCRIPTION	CODE NO.	LOCA NO.	4HEAD	2HEAD				REMARK
				SV -M80Z	SV -M30FK	SV -M30XK	SV -M30IK		
1	MAIN PCB	66029-1197-00		0	0	0	0		
2	NTSC	62169-406-482	D612	X	X	X	X	1N4148 (V)	
3	4H' D	62169-406-482	D607	0	X	X	X	1N4148 (V)	
4	LP	62169-406-482	D609	0	X	X	0	1N4148 (V)	
5	SECAM	62169-406-482	D611	0	0	X	X	1N4148 (V)	
6	SERVO	60509-400-115	W277	X	0	0	0	JUMPER (V)	
7	SERVO	60509-400-115	W278	X	0	0	0	JUMPER (V)	
8	SERVO	A1020-0322	R261	0	X	X	X	2. 2K (VB)	
9	SERVO	61048-177-102	R240	0	X	X	X	1K (V)	
10	SERVO	60509-400-115	W228	X	0	0	0	JUMPER (V)	
11	PRE AMP	A1020-0449	J310	X	0	0	0	JUMPER (VB)	
12	PRE AMP	A1020-0449	J212	X	0	0	0	JUMPER (VB)	
13	PAL ONLY	A1100-0958	C300	X	X	0	0	103P (VB)	
14	DRUM	69020-124-030	.	0	.	.	.	CX5-D4P	
15	DRUM	69020-124-042	.	.	0	0	.	CX5-S2P/SP-SESA	
16	DRUM	69020-124-043	.	.	.	.	0	CX5-S2P/LP-SESA	
17	DECK	DX5-R/SAN	.	0	X	X	X		
18	DECK	DX5-R	.	X	0	0	0		
19	MODEL	2H' D	J602	X	0	0	0	JUMPER (VB)	
	OPTION								
20	MODEL	4H' D	J603	0	X	X	X	.	
	OPTION								
21	MODEL	SECAM	J604	0	0	X	X	.	
	OPTION								
22	OPTION	2H' D	W664	X	0	0	0	JUMPER (V)	
23	OPTION	4H' D	W665	0	X	X	X	JUMPER (V)	
24	OPTION	NTSC	W666	X	X	X	X	JUMPER (V)	
25	OPTION	LP	W667	0	X	X	0	JUMPER (V)	
26	OPTION	MESECAM	W668	0	0	0	0	JUMPER (V)	
27	OPTION	SECAM	W669	0	0	X	X	JUMPER (V)	
28	SECAM	B4012-0373	IC3S01	0	0	X	X	BA7207S (I)	
29	SECAM	A1020-0520	R3S01	0	0	X	X	7. 5K (VB)	
30	SECAM	A1020-0520	R3S02	0	0	X	X	7. 5K (VB)	
31	SECAM	A1020-0334	R3S04	0	0	X	X	391 (VB)	
32	SECAM	A1020-0336	R3S05	0	0	X	X	561 (VB)	
33	SECAM	A1020-0441	R3S06	0	0	X	X	10K (VB)	
34	SECAM	A1020-0544	R3S07	0	0	X	X	100K (VB)	
35	SECAM	A1020-0321	R3S08	0	0	X	X	33K (VB)	
36	SECAM	A1020-0774	R3S09	0	0	X	X	12K (VB)	
37	SECAM	61048-177-331	R3S10	0	0	X	X	331 (V)	
38	SECAM	A1020-0786	R3S11	0	0	X	X	2. 4K (VB)	
39	SECAM	A1020-0317	R3S12	0	0	X	X	3. 9K (VB)	
40	SECAM	A1020-0320	R3S13	0	0	X	X	1K (VB)	
41	SECAM	A1020-0344	R3S14	0	0	X	X	1. 2K (VB)	
42	SECAM	A1020-0321	R3S15	0	0	X	X	33K (VB)	
43	SECAM	A1020-0321	R3S16	0	0	X	X	33K (VB)	
44	SECAM	A1020-0431	R3S19	0	0	X	X	22K (VB)	
45	SECAM	A1020-0790	R3S20	0	0	X	X	27K (VB)	
46	SECAM	A1020-0455	R3S21	0	0	X	X	1. 5K (VB)	
47	SECAM	A1020-0320	R3S22	0	0	X	X	1K (V)	
48	SECAM	61048-177-243	R3S23	0	0	X	X	24K (V)	
49	SECAM	A1020-0449	J315	0	0	X	X	0 (VB)	
50	SECAM	A1020-0449	J311	0	0	X	X	0 (VB)	
51	SECAM	B4012-0372	IC3S02	0	0	X	X	LA7356 (I)	

NO.	DESCRIPTION	CODE NO.	LOCA NO.	4HEAD	2HEAD				REMARK
				SV -M80Z	SV -M30FK	SV -M30XK	SV -M30IK		
50	SECAM	A1020-0449	J311	0	0	X	X	0 (VB)	
51	SECAM	B4012-0372	IC3S02	0	0	X	X	LA7356 (I)	
52	SECAM	62137-302-740	Q3S01	0	0	X	X	C945 (V)	
53	SECAM	62137-701-013	Q3S03	0	0	X	X	R1004 (V)	
54	SECAM	62137-103-380	Q3S04	0	0	X	X	A733 (V)	
55	SECAM	62427-020-120	L3S01	0	0	X	X	12uH (V)	
56	SECAM	62427-020-470	L3S02	0	0	X	X	47uH (V)	
57	SECAM	62429-833-101	L3S03	0	0	X	X	100uH (V)	
58	SECAM	62427-020-101	L3S04	0	0	X	X	100uH (V)	
59	SECAM	B1054-0229	VR3S01	0	0	X	X	2. 2K (V)	
60	SECAM	B1054-0229	VR3S02	0	0	X	X	2. 2K (V)	
61	SECAM	A1100-0009	C3S01	0	0	X	X	100P (VB)	
62	SECAM	A1100-0958	C3S02	0	0	X	X	103P (VB)	
63	SECAM	61407-117-561	C3S03	0	0	X	X	561P (V)	
64	SECAM	A1104-0711	C3S04	0	0	X	X	0. 47/50 (V)	
65	SECAM	A1100-0958	C3S05	0	0	X	X	103P (VB)	
66	SECAM	A1100-0958	C3S06	0	0	X	X	103P (VB)	
67	SECAM	A1100-0961	C3S07	0	0	X	X	104P (VB)	
68	SECAM	61637-204-470	C3S08	0	0	X	X	47/16 (V)	
69	SECAM	A1100-0961	C3S09	0	0	X	X	104P (VB)	
70	SECAM	A1100-0961	C3S10	0	0	X	X	104P (VB)	
71	SECAM	A1100-0958	C3S11	0	0	X	X	103P (VB)	
72	SECAM	A1100-0961	C3S12	0	0	X	X	104P (VB)	
73	SECAM	A1100-0958	C3S13	0	0	X	X	103P (VB)	
74	SECAM	A1100-0972	C3S14	0	0	X	X	27P (VB)	
75	SECAM	61637-204-470	C3S15	0	0	X	X	47/16 (V)	
76	SECAM	A1100-0958	C3S16	0	0	X	X	103P (VB)	
77	SECAM	A1104-0624	C3S17	0	0	X	X	47/16 (V)	
78	SECAM	A1100-0020	C3S18	0	0	X	X	427P (VB)	
79	SECAM	A1100-0958	C3S19	0	0	X	X	103P (VB)	
80	SECAM	61407-117-104	C3S20	0	0	X	X	103P (VB)	
81	SECAM	A1100-0438	C3S21	0	0	X	X	68P (VB)	
82	SECAM	A1100-0080	C3S22	0	0	X	X	82P (VB)	
83	SECAM	A1100-0958	C3S23	0	0	X	X	103P (VB)	
84	SECAM	A1100-0958	C3S24	0	0	X	X	103P (VB)	
85	SECAM	A1100-0958	C3S25	0	0	X	X	103P (VB)	
86	SECAM	A1100-0496	C3S26	0	0	X	X	56P (VB)	
87	SECAM	A1100-0961	C3S27	0	0	X	X	104P (VB)	
88	SECAM	62169-406-482	D3S01	0	0	X	X	IN4148 (V)	
89	SECAM	60509-400-115	W326	0	0	X	X	JUMPER (V)	
90	SECAM	60509-400-115	W327	0	0	X	X	JUMPER (V)	
91	SECAM	60509-400-115	W328	0	0	X	X	JUMPER (V)	
92	SECAM	60509-400-115	W329	0	0	X	X	JUMPER (V)	
93	SECAM	60509-400-115	W333	0	0	X	X	JUMPER (V)	
94	SECAM	60509-400-115	W334	0	0	X	X	JUMPER (V)	
95	SECAM	60509-400-115	W330	0	0	X	X	JUMPER (V)	
96	SECAM	60509-400-115	W331	0	0	X	X	JUMPER (V)	
97	SECAM	60509-400-115	W338	0	0	X	X	JUMPER (V)	
98	SECAM	A1020-0449	J316	0	0	X X	X	JUMPER ( (VB)	
99	SECAM	A1020-0449	W314	0	0	X	X	JUMPER (VB)	
100	SECAM	A1020-0449	W337	0	0	X	X	JUMPER (VB)	

## 8-2 TVP3350X/SMSX

Loc No.	OLD Part-No	NEW Part-No	Description	Specification	Remarks
<b>ASSY-PCB,MAIN(OPT)</b> BUYER : SEG (GERMANY)					
*		AA94-10064L	ASSY-PCB,MAIN(OPT)	TVP3350X/SMSX,SCV11B,GERM	
PCB	36029-0580-000	AA41-10494A	PCB-MAIN	SCV11B,1,FR-1,330X245X1.6	BARE PCB
B.S.C	32073-0117-000	AA63-40137A	SHILED-BOTTOM	-,SPTE,T0.25,SCV11A,-	
C101*	31607-401-470	2401-000269	C-AL	100UF,20%,16V,GP,6X11MM,5	
C102	31607-401-690	2401-000832	C-AL	220UF,20%,25V,GP,8X11MM,5	
C103	A1100-0465	2202-000253	C-CERAMIC,MLC-AXIAL	4.7NF,20%,16V,Y5P,1.9X3.5	
C104	31607-401-480	2401-000808	C-AL	220UF,20%,16V,GP,8X11MM,5	
C105	A1100-0340	2202-000109	C-CERAMIC,MLC-AXIAL	100NF,+80-20%,50V,Y5P,1.9	
C106	A1100-0803	2202-000127	C-CERAMIC,MLC-AXIAL	10NF,+80-20%,25V,Y5V,-,7.	
C107	31507-127-008	2301-000224	C-FILM,PEF	22NF,5%,50V,7.4X3.9X13MM,	
C108		31607-402-260	C-ELECTROLYNC	CE04W TAPG 50V 22M-M	
C110	31607-402-070	2401-000947	C-AL	22UF,20%,35V,GP,5X11MM,-,	
C111	A1100-0803	2202-000127	C-CERAMIC,MLC-AXIAL	10NF,+80-20%,25V,Y5V,-,7.	
C112	A1102-0338	2305-000196	C-FILM,MPEF	150NF,5%,63V,-,5MM,TP	
C201	31607-401-470	2401-000269	C-AL	100UF,20%,16V,GP,6X11MM,5	
C202	31407-105-660	2201-000144	C-CERAMIC,DISC	100PF,5%,50V,NPO,8.0X4.0M	
C203	B1102-0318	2306-000122	C-FILM,MPPF	100NF,5%,50V,7.3X4.0X5.0M	
C204	31507-127-008	2301-000224	C-FILM,PEF	22NF,5%,50V,7.4X3.9X13MM,	
C205		31607-402-220	C-ELECTROLYTIC	CE04W TAPG 50V 2.2M	
C206	B1102-0318	2306-000122	C-FILM,MPPF	100NF,5%,50V,7.3X4.0X5.0M	
C207	31607-401-470	2401-000269	C-AL	100UF,20%,16V,GP,6X11MM,5	
C208	31507-127-026	2305-000411	C-FILM,MPEF	470NF,5%,50V,7.3X4.8X5.5M	
C209	B1102-0318	2306-000122	C-FILM,MPPF	100NF,5%,50V,7.3X4.0X5.0M	
C210	31507-127-026	2305-000411	C-FILM,MPEF	470NF,5%,50V,7.3X4.8X5.5M	
C211		A1102-0089	C-FILM	CQ 921 M 50V T 332-K TS	
C212	B1102-0318	2306-000122	C-FILM,MPPF	100NF,5%,50V,7.3X4.0X5.0M	
C213	B1102-0318	2306-000122	C-FILM,MPPF	100NF,5%,50V,7.3X4.0X5.0M	
C214	B1102-0318	2306-000122	C-FILM,MPPF	100NF,5%,50V,7.3X4.0X5.0M	
C215	31607-402-230	2401-001026	C-AL	3.3UF,20%,50V,GP,5X11MM,5	
C216		31407-105-110	C-CERAMIC,TEMP	CC45 TAPG CH 50V 120-J	
C217	A1100-0338	2202-000173	C-CERAMIC,MLC-AXIAL	1NF,10%,50V,Y5P,1.9X3.5MM	
C218	A1100-0338	2202-000173	C-CERAMIC,MLC-AXIAL	1NF,10%,50V,Y5P,1.9X3.5MM	
C219	31407-057-180	2201-000273	C-CERAMIC,DISC	18PF,5%,50V,NPO,5.0X3.0,2	
C220	31607-401-460	2401-001495	C-AL	47UF,20%,16V,GP,5X11MM,5M	
C221	B1102-0318	2306-000122	C-FILM,MPPF	100NF,5%,50V,7.3X4.0X5.0M	
C222	31607-401-680	2401-000302	C-AL	100UF,20%,25V,GP,6X11MM,5	
C223*	31507-127-024	2305-000288	C-FILM,MPEF	220NF,5%,50V,7.3X4.8X5.5M	
C224*	B1102-0318	2306-000122	C-FILM,MPPF	100NF,5%,50V,7.3X4.0X5.0M	
C225	31607-401-460	2401-001495	C-AL	47UF,20%,16V,GP,5X11MM,5M	
C226	31607-402-210	2401-000603	C-AL	1UF,20%,50V,GP,5X11MM,5MM	
C227	A1100-0338	2202-000173	C-CERAMIC,MLC-AXIAL	1NF,10%,50V,Y5P,1.9X3.5MM	
C228	A1102-0330	2309-000138	C-FILM,PE-PPF	100NF,5%,50V,16X7MM,7.5MM	
C229	B1102-0318	2306-000122	C-FILM,MPPF	100NF,5%,50V,7.3X4.0X5.0M	
C230	B1102-0318	2306-000122	C-FILM,MPPF	100NF,5%,50V,7.3X4.0X5.0M	
C231		31607-402-200	C-ELECTROLYTIC	CE04W TAPG 50V 0.47M	
C232	31407-105-180	2201-000389	C-CERAMIC,DISC	22PF,5%,50V,NPO,5.0X3.0,2	
C233	A1100-0879	2202-000286	C-CERAMIC,MLC-AXIAL	56PF,5%,50V,SL,1.9X3.5MM,	
C234	31507-127-016	2301-000264	C-FILM,PEF	4.7NF,5%,50V,6.5X5.5X3.0X	
C236	31507-127-003	2301-000232	C-FILM,PEF	3.3NF,5%,50V,8.1X4.5X13MM	
C237		31607-402-240	C-ELECTROLYTIC	CE04W TAPG 50V 4.7M	
C238	31507-127-002	2301-000201	C-FILM,PEF	2.2NF,5%,50V,7.4X2.9X13MM	
C239		31607-402-220	C-ELECTROLYTIC	CE04W TAPG 50V 2.2M	

Loc No.	OLD Part-No	NEW Part-No	Description	Specification	Remarks
C240	A1100-0803	2202-000127	C-CERAMIC,MLC-AXIAL	10NF,+80-20%,25V,Y5V,-,7.	
C249	31607-402-250	2401-000480	C-AL	10UF,20%,50V,GP,5X11MM,5M	
C250	B1102-0318	2306-000122	C-FILM,MPPF	100NF,5%,50V,7.3X4.0X5.0M	
C251	31507-137-018	2301-000246	C-FILM,PEF	33NF,5%,100V,7X5.0X9.5MM,	
C252	31407-105-270	2201-000459	C-CERAMIC,DISC	30PF,5%,50V,NPO,5.0X3.0,2	
C254	31607-401-670	2401-001530	C-AL	47UF,20%,25V,GP,5X11MM,5M	
C301	A1100-0338	2202-000173	C-CERAMIC,MLC-AXIAL	1NF,10%,50V,Y5P,1.9X3.5MM	
C302		A1104-0739	C-ELEC	CE 04 -55/105 100V T 680-	
C303	31507-121-920	2301-000125	C-FILM,PEF	100NF,20%,100V,14.5X5.7X8	
C305	A1100-0338	2202-000173	C-CERAMIC,MLC-AXIAL	1NF,10%,50V,Y5P,1.9X3.5MM	
C401	31507-127-006	2301-000380	C-FILM,PEF	10NF,5%,50V,6.5X3MM,5MM,T	
C402	31417-901-410	2201-000639	C-CERAMIC,DISC	680PF,10%,2KV,Y5P,-,5MM,T	
C403		A1102-0205	C-FILM	CF 922 P 1.6KV T 632-J BU	
⚠ C404	31516-391-000	2306-000195	C-FILM,MPPF	360NF,5%,400V,26.0X11.0X1	
⚠ C405	31517-003-020	2305-000154	C-FILM,MPEF	100NF,5%,400V,21.5X6.5X11	
C406	31417-106-090	2201-000556	C-CERAMIC,DISC	470PF,10%,500V,Y5P,6X3.5M	
C407	A1104-0012	2401-001397	C-AL	470UF,20%,25V,GP,10X16MM,	
C408	31417-106-090	2201-000556	C-CERAMIC,DISC	470PF,10%,500V,Y5P,6X3.5M	
C409	31607-403-070	2401-001662	C-AL	68UF,20%,100V,GP,10X16MM,	
C411	31417-106-090	2201-000556	C-CERAMIC,DISC	470PF,10%,500V,Y5P,6X3.5M	
C412	A1104-0564	2401-000932	C-AL	22UF,20%,250V,WT,13X25MM,	
C413	31507-127-008	2301-000224	C-FILM,PEF	22NF,5%,50V,7.4X3.9X13MM,	
C414		A1100-0804	C-CERAMIC	CK 45 Y5R 2KV 681-K HCVR3	
C415		A1102-0376	C-FILM	VEND: ♂ CQ 922 P 400V T	
C601	A1100-0823	2202-000199	C-CERAMIC,MLC-AXIAL	22NF,+80-20%,25V,Y5V,-,7.	
C602		31607-402-200	C-ELECTROLYTIC	CE04W TAPG 50V 0.47M	
C606	A1100-0799	2202-000154	C-CERAMIC,MLC-AXIAL	150PF,10%,50V,Y5P,-,-,TP	
C607	A1104-0534	2401-000166	C-AL	1000UF,20%,25V,WT,13X20MM	
C610	31507-127-006	2301-000380	C-FILM,PEF	10NF,5%,50V,6.5X3MM,5MM,T	
C611	31507-127-016	2301-000264	C-FILM,PEF	4.7NF,5%,50V,6.5X5.5X3.0X	
C701	31607-974-003	2401-000471	C-AL	10UF,20%,50V,BP,6X11MM,5M	
C702	31607-803-730	2401-001264	C-AL	4.7UF,20%,50V,BP,6X11MM,5	
C703	A1100-0798	2202-000121	C-CERAMIC,MLC-AXIAL	100PF,10%,50V,Y5P,1.9X3.5	
C704	A1100-0839	2202-000263	C-CERAMIC,MLC-AXIAL	470PF,10%,50V,Y5P,3.5X19M	
C705		31607-401-500	C-ELECTROLYTIC	CE04W TAPG 16V 470M-M(SG)	
C706	31607-402-250	2401-000480	C-AL	10UF,20%,50V,GP,5X11MM,5M	
C707	31607-402-250	2401-000480	C-AL	10UF,20%,50V,GP,5X11MM,5M	
C708	31607-402-250	2401-000480	C-AL	10UF,20%,50V,GP,5X11MM,5M	
C710	31607-402-250	2401-000480	C-AL	10UF,20%,50V,GP,5X11MM,5M	
C711	31607-402-250	2401-000480	C-AL	10UF,20%,50V,GP,5X11MM,5M	
C713	31607-401-670	2401-001530	C-AL	47UF,20%,25V,GP,5X11MM,5M	
C714	31607-401-670	2401-001530	C-AL	47UF,20%,25V,GP,5X11MM,5M	
C717	31607-402-250	2401-000480	C-AL	10UF,20%,50V,GP,5X11MM,5M	
C718	31607-401-670	2401-001530	C-AL	47UF,20%,25V,GP,5X11MM,5M	
C723	31607-402-250	2401-000480	C-AL	10UF,20%,50V,GP,5X11MM,5M	
C724	31607-401-670	2401-001530	C-AL	47UF,20%,25V,GP,5X11MM,5M	
C725	31607-402-250	2401-000480	C-AL	10UF,20%,50V,GP,5X11MM,5M	
C726	31607-402-250	2401-000480	C-AL	10UF,20%,50V,GP,5X11MM,5M	
C727	31417-104-170	2201-000673	C-CERAMIC,DISC	820PF,10%,50V,Y5P,4X3.5MM	
C728	31417-104-170	2201-000673	C-CERAMIC,DISC	820PF,10%,50V,Y5P,4X3.5MM	
C800A		31466-105-010	C-CERAMIC,AC	CK45P E400V 332-M(T4KV)	
C801	A1102-0407	2306-000317	C-FILM,MPPF	220NF,20%,250V,-,20MM,TP	
C802	A1102-0407	2306-000317	C-FILM,MPPF	220NF,20%,250V,-,20MM,TP	
C803		31467-102-010	C-CERAMIC,AC	CK45P TAPG E250V 222-M(T2	
C804		31467-102-010	C-CERAMIC,AC	CK45P TAPG E250V 222-M(T2	
C805		31467-102-010	C-CERAMIC,AC	CK45P TAPG E250V 222-M(T2	
C806		31467-102-010	C-CERAMIC,AC	CK45P TAPG E250V 222-M(T2	
C807		2401-003025	C-AL	330UF,20%,400V,GP,30X40,1	
⚠ C808	31509-391-090	2303-000159	C-FILM,PPF	2.2NF,5%,1.6KV,28X13.5X8,	
C809		31607-402-320	C-ELECTROLYTIC	CE04W TAPG 50V 470M-M(RO)	
C810	A1104-0520	2401-000903	C-AL	22UF,20%,160V,WT,10X20MM,	

Loc No	OLD Part-No	NEW Part-No	Description	Specification	Remarks
C811		A1104-0783	C-ELEC	CE 04 -40/+105 35V T 221-	
C812	31507-127-000	2301-000192	C-FILM,PEF	1NF,5%,50V,5.3X10MM,5MM,T	
C813		31417-901-400	C-CERAMIC,HIC	CK45(T) B2KV 561-K	
C814		31417-901-400	C-CERAMIC,HIC	CK45(T) B2KV 561-K	
C815		31417-901-400	C-CERAMIC,HIC	CK45(T) B2KV 561-K	
C816		31417-901-400	C-CERAMIC,HIC	CK45(T) B2KV 561-K	
C817		31417-901-400	C-CERAMIC,HIC	CK45(T) B2KV 561-K	
C818	31417-901-410	2201-000639	C-CERAMIC,DISC	680PF,10%,2KV,Y5P,-,5MM,T	
C819		31607-403-990	C-ELECTROLYTIC	CE04W TAPG 200V 100M-M(16	
C820		31607-403-990	C-ELECTROLYTIC	CE04W TAPG 200V 100M-M(16	
C821		2401-003034	C-AL	220UF,20%,16V,WT,8X11.5MM	
C822		31607-402-480	C-ELECTROLYTIC	CE04W TAPG 50V 47-W(+20-0	
C823		A1104-0739	C-ELEC	CE 04 -55/105 100V T 680-	
C824	A1104-0525	2401-000144	C-AL	1000UF,20%,16V,WT,13X20MM	
C825	31607-401-770	2401-000706	C-AL	2200UF,20%,25V,GP,16X25MM	
C826	A1104-0559	2401-000318	C-AL	100UF,20%,25V,WT,8X11.5MM	
C828	A1104-0533	2401-001376	C-AL	470UF,20%,16V,WT,10X16MM,	
C829	31417-344-104	2201-000119	C-CERAMIC,DISC	100NF,+80-20%,50V,Y5V,8X5	
C831		31607-401-500	C-ELECTROLYTIC	CE04W TAPG 16V 470M-M(SG)	
C832	31417-344-104	2201-000119	C-CERAMIC,DISC	100NF,+80-20%,50V,Y5V,8X5	
C833		A1104-0740	C-ELEC	CE 04 -55/105 25V T 471-M	
C836	31507-121-920	2301-000125	C-FILM,PEF	100NF,20%,100V,14.5X5.7X8	
C837	31607-402-130	2401-001417	C-AL	470UF,20%,35V,GP,6X11MM,5	
C838	A1104-0810	2401-002211	C-AL	1000UF,20%,35V,-,13X25,5M	
C839	A1104-0012	2401-001397	C-AL	470UF,20%,25V,GP,10X16MM,	
C840	31507-127-026	2305-000411	C-FILM,MPEF	470NF,5%,50V,7.3X4.8X5.5M	
C841		31607-401-500	C-ELECTROLYTIC	CE04W TAPG 16V 470M-M(SG)	
C842	A1104-0012	2401-001397	C-AL	470UF,20%,25V,GP,10X16MM,	
C843		31607-402-480	C-ELECTROLYTIC	CE04W TAPG 50V 47-W(+20-0	
C844	31607-401-480	2401-000808	C-AL	220UF,20%,16V,GP,8X11MM,5	
C845		A1104-0740	C-ELEC	CE 04 -55/105 25V T 471-M	
C846		31607-401-500	C-ELECTROLYTIC	CE04W TAPG 16V 470M-M(SG)	
C850	31607-401-700	2401-001116	C-AL	330UF,20%,25V,GP,10X12MM,	
C852	31607-401-680	2401-000302	C-AL	100UF,20%,25V,GP,6X11MM,5	
C853		A1104-0472	C-ELEC	CE 04 -40/85 25V T 102-M	
C854	B1102-0318	2306-000122	C-FILM,MPPF	100NF,5%,50V,7.3X4.0X5.0M	
C855	31417-344-104	2201-000119	C-CERAMIC,DISC	100NF,+80-20%,50V,Y5V,8X5	
C856	B1102-0318	2306-000122	C-FILM,MPPF	100NF,5%,50V,7.3X4.0X5.0M	
C859	B1102-0318	2306-000122	C-FILM,MPPF	100NF,5%,50V,7.3X4.0X5.0M	
C901	A1100-0338	2202-000173	C-CERAMIC,MLC-AXIAL	1NF,10%,50V,Y5P,1.9X3.5MM	
C902		31407-105-110	C-CERAMIC,TEMP	CC45 TAPG CH 50V 120-J	
C903		31607-402-200	C-ELECTROLYTIC	CE04W TAPG 50V 0.47M	
C904		31407-105-110	C-CERAMIC,TEMP	CC45 TAPG CH 50V 120-J	
C905	31507-127-019	2301-000227	C-FILM,PEF	27NF,5%,50V,7X3.5X6.5MM,5	
C907	31407-057-270	2201-000423	C-CERAMIC,DISC	27PF,5%,50V,NPO,5.0X3.0,2	
C908	31407-057-270	2201-000423	C-CERAMIC,DISC	27PF,5%,50V,NPO,5.0X3.0,2	
C914*		31607-402-240	C-ELECTROLYTIC	CE04W TAPG 50V 4.7M	
C915	B1102-0318	2306-000122	C-FILM,MPPF	100NF,5%,50V,7.3X4.0X5.0M	
C916	31607-401-480	2401-000808	C-AL	220UF,20%,16V,GP,8X11MM,5	
C917	31417-109-140	2201-000161	C-CERAMIC,DISC	10NF,+80-20%,500V,Y5V,10X	
C918	31607-402-250	2401-000480	C-AL	10UF,20%,50V,GP,5X11MM,5M	
C920	31507-127-000	2301-000192	C-FILM,PEF	1NF,5%,50V,5.3X10MM,5MM,T	
C921		31607-402-200	C-ELECTROLYTIC	CE04W TAPG 50V 0.47M	
CB03*	A1100-0803	2202-000127	C-CERAMIC,MLC-AXIAL	10NF,+80-20%,25V,Y5V,-,7.	
CK02*	31407-105-260	2201-000573	C-CERAMIC,DISC	47PF,5%,50V,NPO,6.5X3.0,5	
CK05*		31607-402-240	C-ELECTROLYTIC	CE04W TAPG 50V 4.7M	
CK06*		31607-402-240	C-ELECTROLYTIC	CE04W TAPG 50V 4.7M	
CK07*		31607-402-240	C-ELECTROLYTIC	CE04W TAPG 50V 4.7M	
CK08*	A1100-0803	2202-000127	C-CERAMIC,MLC-AXIAL	10NF,+80-20%,25V,Y5V,-,7.	
CL01*	A1100-0803	2202-000127	C-CERAMIC,MLC-AXIAL	10NF,+80-20%,25V,Y5V,-,7.	
CL02	31607-803-730	2401-001264	C-AL	4.7UF,20%,50V,BP,6X11MM,5	

Loc No	OLD Part-No	NEW Part-No	Description	Specification	Remarks
CL04*	A1100-0338	2202-000173	C-CERAMIC,MLC-AXIAL	1NF,10%,50V,Y5P,1.9X3.5MM	
CL05*	31607-401-430	2401-000440	C-AL	10UF,20%,25V,GP,5X11MM,5M	
CN101	33344-112-700	3711-000588	CONNECTOR-HEADER	BOX,10P,1R,2.5MM,STRAIGHT	
CN102	A6010-0902	3711-000658	CONNECTOR-HEADER	BOX,12P,1R,2.5MM,STRAIGHT	
CN501A		33347-108-140	POST-HEADER	67094-006 (AUTO)	
CN502A		33347-108-180	POST-HEADER	67094-005 (AUTO)	
CN601		33347-108-310	POST-HEADER	67094-003(AUTO)	
CN701		33347-108-110	POST-HEADER	67094-007 (AUTO)	
CN701A		33347-114-810	POST-HEADER	YW025-04(AUTO)	
CN801	33058-302-012	AA39-200508	LEAD-CONNECTOR,ASSY	-,YBNH025-03,S,3P,300,100	
CN901		33347-108-180	POST-HEADER	67094-005 (AUTO)	
CNW901	A1113-0023	2503-000154	C-NETWORK	100PFX3,20%,50V	
D102		32167-406-480	DIODE	1N4148 TAPG	
D205		32167-406-480	DIODE	1N4148 TAPG	
D208		32167-406-480	DIODE	1N4148 TAPG	
D209		32167-406-480	DIODE	1N4148 TAPG	
D401		A4104-0064	DIODE-RECT	1N4003 200V 1A T	
D402		A4104-0064	DIODE-RECT	1N4003 200V 1A T	
D403	31018-177-203	2001-000009	R-CARBON	20KOHM,5%,1/8W,AA,TP,1.8X	
D404	31018-177-331	2001-000003	R-CARBON	330OHM,5%,1/8W,AA,TP,1.8X	
D405	32169-221-002	0402-000250	DIODE-RECTIFIER	RG4C,1000V,1A,-	
D407		A4104-0064	DIODE-RECT	1N4003 200V 1A T	
D801	31018-177-153	2001-000008	R-CARBON	15KOHM,5%,1/8W,AA,TP,1.8X	
D802	31018-177-153	2001-000008	R-CARBON	15KOHM,5%,1/8W,AA,TP,1.8X	
D803	31018-177-203	2001-000009	R-CARBON	20KOHM,5%,1/8W,AA,TP,1.8X	
D804	31018-177-203	2001-000009	R-CARBON	20KOHM,5%,1/8W,AA,TP,1.8X	
D805	32167-207-120	0402-000493	DIODE-RECTIFIER	1R5GU41,400V,1.5A,DO-15L	
D806	32167-207-120	0402-000493	DIODE-RECTIFIER	1R5GU41,400V,1.5A,DO-15L	
D807	32167-207-120	0402-000493	DIODE-RECTIFIER	1R5GU41,400V,1.5A,DO-15L	
D808	32167-207-120	0402-000493	DIODE-RECTIFIER	1R5GU41,400V,1.5A,DO-15L	
D809	32167-207-120	0402-000493	DIODE-RECTIFIER	1R5GU41,400V,1.5A,DO-15L	
D810	32167-201-650	0402-000532	DIODE-RECTIFIER	ERC13-08,800V,1.2A,DO-204	
D811	32167-201-650	0402-000532	DIODE-RECTIFIER	ERC13-08,800V,1.2A,DO-204	
D812	31018-177-331	2001-000003	R-CARBON	330OHM,5%,1/8W,AA,TP,1.8X	
D813	31018-177-331	2001-000003	R-CARBON	330OHM,5%,1/8W,AA,TP,1.8X	
D814	32167-201-650	0402-000532	DIODE-RECTIFIER	ERC13-08,800V,1.2A,DO-204	
D815		32167-406-480	DIODE	1N4148 TAPG	
D817	31018-177-331	2001-000003	R-CARBON	330OHM,5%,1/8W,AA,TP,1.8X	
D819	31018-177-242	2001-000006	R-CARBON	2.4KOHM,5%,1/8W,AA,TP,1.8	
D820	31018-177-153	2001-000008	R-CARBON	15KOHM,5%,1/8W,AA,TP,1.8X	
D827	32167-201-650	0402-000532	DIODE-RECTIFIER	ERC13-08,800V,1.2A,DO-204	
D829		32167-406-480	DIODE	1N4148 TAPG	
D831		32167-406-480	DIODE	1N4148 TAPG	
D832		32167-406-480	DIODE	1N4148 TAPG	
D833		32167-406-480	DIODE	1N4148 TAPG	
D834		32167-406-480	DIODE	1N4148 TAPG	
D836		A4104-0064	DIODE-RECT	1N4003 200V 1A T	
D837		A4104-0064	DIODE-RECT	1N4003 200V 1A T	
D838		32167-406-480	DIODE	1N4148 TAPG	
D839	32167-201-170	0402-000546	DIODE-RECTIFIER	TVR10G,400V,1.0A,DO-41	
D850	32167-201-170	0402-000546	DIODE-RECTIFIER	TVR10G,400V,1.0A,DO-41	
D851	32167-201-170	0402-000546	DIODE-RECTIFIER	TVR10G,400V,1.0A,DO-41	
D901		32167-406-480	DIODE	1N4148 TAPG	
D906		32167-406-480	DIODE	1N4148 TAPG	
D908		32167-406-480	DIODE	1N4148 TAPG	
D909		32167-406-480	DIODE	1N4148 TAPG	
D910		32167-406-480	DIODE	1N4148 TAPG	
D912		32167-406-480	DIODE	1N4148 TAPG	
D913		32167-406-480	DIODE	1N4148 TAPG	
D914		32167-406-480	DIODE	1N4148 TAPG	
D916		32167-406-480	DIODE	1N4148 TAPG	



Loc No.	OLD Part-No	NEW Part-No	Description	Specification	Remarks
D918		32167-406-480	DIODE	1N4148 TAPG	
D919		32167-406-480	DIODE	1N4148 TAPG	
D921		32167-406-480	DIODE	1N4148 TAPG	
DZ702	32167-201-170	0402-000546	DIODE-RECTIFIER	TVR10G,400V,1.0A,DO-41	
DZ704	32167-201-170	0402-000546	DIODE-RECTIFIER	TVR10G,400V,1.0A,DO-41	
DZ705	32167-201-170	0402-000546	DIODE-RECTIFIER	TVR10G,400V,1.0A,DO-41	
DZ706	32167-201-170	0402-000546	DIODE-RECTIFIER	TVR10G,400V,1.0A,DO-41	
DZ707	32167-201-170	0402-000546	DIODE-RECTIFIER	TVR10G,400V,1.0A,DO-41	
DZ801		A1330-0063	VARIATOR	1NR10D561 560V 400MW 2500	
DZ802	32167-201-170	0402-000546	DIODE-RECTIFIER	TVR10G,400V,1.0A,DO-41	
DZ803	32167-201-170	0402-000546	DIODE-RECTIFIER	TVR10G,400V,1.0A,DO-41	
DZ804	32167-201-170	0402-000546	DIODE-RECTIFIER	TVR10G,400V,1.0A,DO-41	
DZ805	32167-201-170	0402-000546	DIODE-RECTIFIER	TVR10G,400V,1.0A,DO-41	
DZ806		A1330-0063	VARIATOR	1NR10D561 560V 400MW 2500	
DZ901		32167-406-080	DIODE-ZENER	MTZ 5.1B	
DZ902		32167-406-080	DIODE-ZENER	EQA02-06D/MTZ6.2B(TAPG)	
DZ904	32167-201-170	0402-000546	DIODE-RECTIFIER	TVR10G,400V,1.0A,DO-41	
DZ905		32167-401-800	DIODE-ZENER	EQA02-06A/MTZ5.6B(TAPG)	
DZ906		32167-401-800	DIODE-ZENER	EQA02-06A/MTZ5.6B(TAPG)	
! F801	34709-084-730	3601-000261	FUSE-FERRULE	250V,3.15A,TIME LAG,GLASS	
F81	33167-001-001	3602-000114	FUSE-HOLDER	-, -, 30MOHM	
F82	33167-001-001	3602-000114	FUSE-HOLDER	-, -, 30MOHM	
GT02	33054-834-014	AA39-20010B	LEAD-CONNECTOR, ASSY	-, YFH800-01, S, 1P, 500, 1617	
HC001		AA13-20004A	IC-HYBRID	-, PAP102, SIP, 6P, PRE-AMP	
IC201		B4012-0546	IC-LINEAR	TDA8374A SDIP STICK MULTI	
! IC202	A4060-0033	0504-000123	TR-DIGITAL	KSR1010, NPN, 300MW, 10K, TO-	
IC203*		B4012-0469	IC-LINEAR	TDA8395P/N2 DIP BULK SECA	
IC701		B4004-0149	IC-LOGIC	TC4053BP/HCF4053BEY DIP	
IC702		A4012-0658	IC-LINEAR	KA8405 SIP BULK A/V SWITC	
IC703		A4012-0658	IC-LINEAR	KA8405 SIP BULK A/V SWITC	
IC704		A4012-0657	IC-LINEAR	KA8404 SIP BULK A/V SWITC	
! IC801	32167-406-130	0403-000563	DIODE-ZENER	MTZ9.1B, 9.1V, 8.57-9.01V, 5	
! IC802	A4060-0036	0504-000119	TR-DIGITAL	KSR1004, NPN, 300MW, 47K-47K	
! IC803	A4052-0055	0502-000244	TR-POWER	KSA940, PNP, -150V, -150V, -1	
! IC806	32167-406-130	0403-000563	DIODE-ZENER	MTZ9.1B, 9.1V, 8.57-9.01V, 5	
! IC807	32167-406-250	0403-000654	DIODE-ZENER	MTZ12.12V, 11.4-12.6V, 500M	
IC811	A4106-0227	0403-000700	DIODE-ZENER	TZP33A, 33V, 31-35V, 1W, DO-4	
IC901	B4002-0179	AA13-30002H	IC-MCU	-, CXP853P40S-1, 8BIT, SDIP,	
IC902		B4000-0118	IC-EEPROM	CAT24C08P DIP	
IC903	32167-406-190	0403-000658	DIODE-ZENER	MTZ18A, 18V, 16.22-17.06V, 5	
ICK01*	A4060-0036	0504-000119	TR-DIGITAL	KSR1004, NPN, 300MW, 47K-47K	
ICL01*		B4012-0369	IC-LINEAR	STV8225 DIP 14P IF	
JS701	A3040-0182	3722-000183	JACK-RCA	21P, 4MM, -, SN	
L101	32427-904-944	2701-000202	INDUCTOR-AXIAL	560NH, 10%, 2.5X3.4MM	
L102	32427-904-924	2701-000114	INDUCTOR-AXIAL	10UH, 10%, 2.5X3.4MM	
L104	32427-805-877	2701-000146	INDUCTOR-AXIAL	2.2UH, 10%, 2.5X3.4MM	
L201	32427-904-924	2701-000114	INDUCTOR-AXIAL	10UH, 10%, 2.5X3.4MM	
L202	32427-904-924	2701-000114	INDUCTOR-AXIAL	10UH, 10%, 2.5X3.4MM	
L203	32427-904-924	2701-000114	INDUCTOR-AXIAL	10UH, 10%, 2.5X3.4MM	
L204	32427-904-924	2701-000114	INDUCTOR-AXIAL	10UH, 10%, 2.5X3.4MM	
L205	32427-904-924	2701-000114	INDUCTOR-AXIAL	10UH, 10%, 2.5X3.4MM	
L301	32427-805-882	2701-000116	INDUCTOR-AXIAL	10UH, 10%, 4.2X9.8MM	
L302	32427-805-882	2701-000116	INDUCTOR-AXIAL	10UH, 10%, 4.2X9.8MM	
L303	32427-904-924	2701-000114	INDUCTOR-AXIAL	10UH, 10%, 2.5X3.4MM	
L304	32427-904-924	2701-000114	INDUCTOR-AXIAL	10UH, 10%, 2.5X3.4MM	
L401	32449-730-010	AA27-30001K	COIL-LINEARITY	-, 230UH, DR1215, P10.5, 14.1	
L403		A1247-0058	FILTER-EMI BEAD	BFS3550R2FD8G SB 700HM/10	
L701	32427-904-924	2701-000114	INDUCTOR-AXIAL	10UH, 10%, 2.5X3.4MM	
L702	32427-904-924	2701-000114	INDUCTOR-AXIAL	10UH, 10%, 2.5X3.4MM	
L703	32427-904-924	2701-000114	INDUCTOR-AXIAL	10UH, 10%, 2.5X3.4MM	
L704		A1247-0058	FILTER-EMI BEAD	BFS3550R2FD8G SB 700HM/10	

Loc No	OLD Part-No	NEW Part-No	Description	Specification	Remarks
L801	32426-633-080	AA29-30001B	FILTER-LINE	-,27MH,-,-,-	
L803	32479-029-380	AA27-20001L	COIL-DEGAUSSING	-,14*,23.0OHM,100T,L940,D	
L805	34047-019-060	3301-000287	CORE-FERRITE BEAD	AA,3.5X1.0X6.0MM,1500,240	
L808		B1247-0051	FILTER-EMI BEAD	BL02RN2-R62T4 DB 1.1UH/1M	
L809		B1247-0051	FILTER-EMI BEAD	BL02RN2-R62T4 DB 1.1UH/1M	
L810	B1133-0009	AA27-10002Y	COIL-CHOKE	-,100UH,K,10,700MA,T,100U	
L811		B1247-0051	FILTER-EMI BEAD	BL02RN2-R62T4 DB 1.1UH/1M	
L812	B1133-0009	AA27-10002Y	COIL-CHOKE	-,100UH,K,10,700MA,T,100U	
L813		A1247-0058	FILTER-EMI BEAD	BFS3550R2FD8G SB 70OHM/10	
L902		32427-805-818	COIL-PEAKING	30UH-K EL0606RA 300K	
L904	32427-904-924	2701-000114	INDUCTOR-AXIAL	10UH,10%,2.5X3.4MM	
L905	34047-019-060	3301-000287	CORE-FERRITE BEAD	AA,3.5X1.0X6.0MM,1500,240	
Q201		32137-301-720	TRANSISTOR	KSC 815-Y(TAPG)/YTAM	
Q202		32137-301-720	TRANSISTOR	KSC 815-Y(TAPG)/YTAM	
Q203		32137-401-530	TRANSISTOR	KSA 539-Y(TAPG)/YTAM	
Q204		32137-301-720	TRANSISTOR	KSC 815-Y(TAPG)/YTAM	
Q205		32137-301-720	TRANSISTOR	KSC 815-Y(TAPG)/YTAM	
! Q402		32137-301-560	TRANSISTOR	KSC 2331-Y(TAPG)	
Q601	32167-441-009	0403-000299	DIODE-ZENER	MTZ7.5C,7.5V,7.29-7.67V,5	
Q701		32137-401-530	TRANSISTOR	KSA 539-Y(TAPG)/YTAM	
Q702		32137-301-720	TRANSISTOR	KSC 815-Y(TAPG)/YTAM	
! Q802		A4058-0006	TR-DARLINGTON	TIP102 2W 8A 100V SI/NPN	
! Q803	B4010-0067	AA13-20002L	IC-HYBRID	-,SE125N,S1P,3P,ERROR AMP	
! Q804		32137-301-540	TRANSISTOR	KSC 2330-Y(TAPG)	
! Q805	32167-201-170	0402-000546	DIODE-RECTIFIER	TVR10G,400V,1.0A,DO-41	
! Q806	32167-406-130	0403-000563	DIODE-ZENER	MTZ9.1B,9.1V,8.57-9.01V,5	
! Q807		32137-301-540	TRANSISTOR	KSC 2330-Y(TAPG)	
! Q811		32137-301-540	TRANSISTOR	KSC 2330-Y(TAPG)	
Q901		32137-301-720	TRANSISTOR	KSC 815-Y(TAPG)/YTAM	
Q902	32167-406-260	0403-000668	DIODE-ZENER	MTZ8.2,8.2V,7.7-8.7V,500M	
Q903		32137-301-720	TRANSISTOR	KSC 815-Y(TAPG)/YTAM	
QL01*	32167-406-130	0403-000563	DIODE-ZENER	MTZ9.1B,9.1V,8.57-9.01V,5	
QL02*	32167-406-130	0403-000563	DIODE-ZENER	MTZ9.1B,9.1V,8.57-9.01V,5	
QL03		32137-301-720	TRANSISTOR	KSC 815-Y(TAPG)/YTAM	
R101		31018-177-912	R-CARBON/METAL FILM	RD 1/8T 9.1K-J	
R102	31018-177-333	2001-000660	R-CARBON	33KOHM,5%,1/8W,AA,TP,1.8X	
R103	31018-177-103	2001-000290	R-CARBON	10KOHM,5%,1/8W,AA,TP,1.8X	
R104	31018-177-103	2001-000290	R-CARBON	10KOHM,5%,1/8W,AA,TP,1.8X	
R105	31018-177-101	2001-000281	R-CARBON	100OHM,5%,1/8W,AA,TP,1.8X	
R106	31018-177-101	2001-000281	R-CARBON	100OHM,5%,1/8W,AA,TP,1.8X	
R107	31018-177-101	2001-000281	R-CARBON	100OHM,5%,1/8W,AA,TP,1.8X	
R108	31018-177-221	2001-000515	R-CARBON	220OHM,5%,1/8W,AA,TP,1.8X	
R112	31018-177-102	2001-000429	R-CARBON	1KOHM,5%,1/8W,AA,TP,1.8X3	
R114	31018-177-201	2001-000490	R-CARBON	200OHM,5%,1/8W,AA,TP,1.8X	
R115	31018-177-470	2001-000793	R-CARBON	47OHM,5%,1/8W,AA,TP,1.8X3	
R117	A4008-1140	1203-000165	IC-POS1.ADJUST REG.	78R12,TO-220,3P,-,-,12V,-	
R119	31018-177-123	2001-000331	R-CARBON	12KOHM,5%,1/8W,AA,TP,1.8X	
R120	31018-177-333	2001-000660	R-CARBON	33KOHM,5%,1/8W,AA,TP,1.8X	
R121	31018-177-333	2001-000660	R-CARBON	33KOHM,5%,1/8W,AA,TP,1.8X	
R200	31018-177-395	2001-000617	R-CARBON	3.9MOHM,5%,1/8W,AA,TP,1.8	
R201	B4012-0361	1209-000214	IC-DELAY LINE	TDA4665,DIP,16P,300MIL,PL	
R202	32189-609-430	1404-000139	THERMISTOR-PTC	14OHM,20%,220V,290V,25A,-	
R203	31018-177-101	2001-000281	R-CARBON	100OHM,5%,1/8W,AA,TP,1.8X	
R204	31018-177-101	2001-000281	R-CARBON	100OHM,5%,1/8W,AA,TP,1.8X	
R205	31018-177-122	2001-000221	R-CARBON	1.2KOHM,5%,1/8W,AA,TP,1.8	
R206	31018-177-102	2001-000429	R-CARBON	1KOHM,5%,1/8W,AA,TP,1.8X3	
R207	A4008-1140	1203-000165	IC-POS1.ADJUST REG.	78R12,TO-220,3P,-,-,12V,-	
R208	32119-110-061	1203-000188	IC-POS1.ADJUST REG.	7033P,TO	
R209	32119-110-061	1203-000188	IC-POS1.ADJUST REG.	7033P,TO	
R210	31018-177-511	2001-000832	R-CARBON	510OHM,5%,1/8W,AA,TP,1.8X	
R211	31018-177-274	2001-000548	R-CARBON	270KOHM,5%,1/8W,AA,TP,1.8	

Loc No.	OLD Part-No	NEW Part-No	Description	Specification	Remarks
R212	31018-177-104	2001-000273	R-CARBON	100KOHM,5%,1/8W,AA,TP,1.8	
R213	31018-377-479	2001-001146	R-CARBON(S)	4.7KOHM,5%,1/2W,AA,TP,2.4X	
R215	A4008-0520	1203-000298	IC-POSITIVE FIXED REG.	7809,TO-220,3P,-,PLASTIC,	
R216		31018-177-913	R-CARBON/METAL FILM	RD 1/8T 91K-J	
R217	31018-177-224	2001-000508	R-CARBON	220KOHM,5%,1/8W,AA,TP,1.8	
△ R218	31048-163-902	2004-001914	R-METAL	39KOHM,2%,1/8W,AA,TP,1.8X	
R219	31018-377-109	2001-001092	R-CARBON(S)	10OHM,5%,1/2W,AB,TP,2.4X6.	
R220	31018-177-101	2001-000281	R-CARBON	100OHM,5%,1/8W,AA,TP,1.8X	
R221	31018-177-101	2001-000281	R-CARBON	100OHM,5%,1/8W,AA,TP,1.8X	
R222	31018-177-101	2001-000281	R-CARBON	100OHM,5%,1/8W,AA,TP,1.8X	
R223	31018-177-101	2001-000281	R-CARBON	100OHM,5%,1/8W,AA,TP,1.8X	
R224	32189-609-381	1404-000181	THERMISTOR-NTC	4.7KOHM,20%,2900K,-,BK	
R225	31018-177-303	2001-000633	R-CARBON	30KOHM,5%,1/8W,AA,TP,1.8X	
R226	31018-177-101	2001-000281	R-CARBON	100OHM,5%,1/8W,AA,TP,1.8X	
R227	31018-177-184	2001-000397	R-CARBON	180KOHM,5%,1/8W,AA,TP,1.8	
R228	A4008-1262	1203-000568	IC-VOLTAGE REGULATOR		
R229	31018-177-471	2001-000780	R-CARBON	470OHM,5%,1/8W,AA,TP,1.8X	
R230	31018-177-101	2001-000281	R-CARBON	100OHM,5%,1/8W,AA,TP,1.8X	
R231	31018-177-183	2001-000411	R-CARBON	18KOHM,5%,1/8W,AA,TP,1.8X	
R232	31018-177-102	2001-000429	R-CARBON	1KOHM,5%,1/8W,AA,TP,1.8X3	
R233	31018-177-222	2001-000449	R-CARBON	2.2KOHM,5%,1/8W,AA,TP,1.8	
R234	31018-177-102	2001-000429	R-CARBON	1KOHM,5%,1/8W,AA,TP,1.8X3	
R235	31018-177-101	2001-000281	R-CARBON	100OHM,5%,1/8W,AA,TP,1.8X	
R237		31018-177-912	R-CARBON/METAL FILM	RD 1/8T 9.1K-J	
R301	A4008-1099	1203-000293	IC-POSITIVE FIXED REG.	7808,TO-220,3P,-,PLASTIC,	
R302	31018-377-129	2001-001048	R-CARBON(S)	1.2KOHM,5%,1/2W,AB,TP,2.4X	
R303	31018-377-331	2001-000037	R-CARBON(S)	330OHM,5%,1/2W,AA,TP,2.4X	
R304		A1004-0461	R-METAL OXIDE	RS 2 RT(S) 681-J 680R	
R401	31018-177-101	2001-000281	R-CARBON	100OHM,5%,1/8W,AA,TP,1.8X	
R402	31018-177-332	2001-000591	R-CARBON	3.3KOHM,5%,1/8W,AA,TP,1.8	
R403	31018-377-271	2001-001114	R-CARBON(S)	270OHM,5%,1/2W,AA,TP,2.4X	
R404		31018-377-470	R-CARBON/METAL FILM	RD 1/2T 47-J	
R405	A1004-0404	2003-000540	R-METAL OXIDE(S)	1KOHM,5%,2W,AD,TP,4X12MM	
△ R407	31049-375-913	2004-001408	R-METAL(S)	91KOHM,1%,1/2W,AA,TP,2.4X	
R408		A1010-0065	R-FUSIBLE	RF 1 RT 010-J	
R409	A1010-0036	2008-000204	R-FUSIBLE(S)	0.220OHM,10%,1/2W,AF,TP,2.	
R410		A1010-0065	R-FUSIBLE	RF 1 RT 010-J	
△ R411	31049-375-913	2004-001408	R-METAL(S)	91KOHM,1%,1/2W,AA,TP,2.4X	
R412		31018-377-102	R-CARBON/METAL FILM	RD 1/2T 1K-J	
R413	A1000-0660	2001-001037	R-CARBON(S)	0.390OHM,5%,1/2W,AA,TP,2.4	
R414	31018-377-330	2001-000022	R-CARBON(S)	330OHM,5%,1/2W,AA,TP,2.4X6	
R415		31018-377-392	R-CARBON/METAL FILM	RD 1/2T 3.9K-J	
R416		A1010-0088	R-FUSIBLE	RF 1 RT R47-J	
R417		A1010-0061	R-FUSIBLE	RF 2 RT 010-J	
R419	31018-177-273	2001-000563	R-CARBON	27KOHM,5%,1/8W,AA,TP,1.8X	
R420		31018-177-753	R-CARBON/METAL FILM	RD 1/8T 75K-J	
R601		A1010-0061	R-FUSIBLE	RF 2 RT 010-J	
R602	B4012-0310	1204-000439	IC-IF CIRCUIT	TDA3845,DIP,16P,300MIL,PL	
R603	31018-177-243	2001-000539	R-CARBON	24KOHM,5%,1/8W,AA,TP,1.8X	
R605	31018-177-243	2001-000539	R-CARBON	24KOHM,5%,1/8W,AA,TP,1.8X	
R607		A1010-0079	R-FUSIBLE	RF 2 RT 1R5-J	
R660	31018-377-223	2001-001108	R-CARBON(S)	22KOHM,5%,1/2W,AA,TP,2.4X	
R701	31018-177-101	2001-000281	R-CARBON	100OHM,5%,1/8W,AA,TP,1.8X	
R702		31018-177-562	R-CARBON/METAL FILM	RD 1/8T 5.6K-J/ERD-S2TJ 5	
R703		31018-177-562	R-CARBON/METAL FILM	RD 1/8T 5.6K-J/ERD-S2TJ 5	
R704	31018-177-101	2001-000281	R-CARBON	100OHM,5%,1/8W,AA,TP,1.8X	
R705	31018-177-102	2001-000429	R-CARBON	1KOHM,5%,1/8W,AA,TP,1.8X3	
R706	31018-177-103	2001-000290	R-CARBON	10KOHM,5%,1/8W,AA,TP,1.8X	
R707	31018-177-103	2001-000290	R-CARBON	10KOHM,5%,1/8W,AA,TP,1.8X	
R708	31018-177-102	2001-000429	R-CARBON	1KOHM,5%,1/8W,AA,TP,1.8X3	
R709	31018-377-151	2001-001077	R-CARBON(S)	150OHM,5%,1/2W,AA,TP,2.4X	

Loc No.	OLD Part-No	NEW Part-No	Description	Specification	Remarks
R710	31018-177-101	2001-000281	R-CARBON	100OHM,5%,1/8W,AA,TP,1.8X	
R711		31018-177-750	R-CARBON/METAL FILM	RD 1/8T 75-J/ERD-S2TJ 750	
R712	31018-177-101	2001-000281	R-CARBON	100OHM,5%,1/8W,AA,TP,1.8X	
R713		31018-177-620	R-CARBON/METAL FILM	RD 1/8T 62-J	
R714	31018-177-104	2001-000273	R-CARBON	100KOHM,5%,1/8W,AA,TP,1.8	
R715	31018-177-473	2001-000786	R-CARBON	47KOHM,5%,1/8W,AA,TP,1.8X	
R716	31018-177-152	2001-000241	R-CARBON	1.5KOHM,5%,1/8W,AA,TP,1.8	
R717		31018-177-751	R-CARBON/METAL FILM	RD 1/8T 750-J	
R718		31018-177-562	R-CARBON/METAL FILM	RD 1/8T 5.6K-J/ERD-S2TJ 5	
R719	31018-177-112	2001-000214	R-CARBON	1.1KOHM,5%,1/8W,AA,TP,1.8	
R800A		31028-328-475	R-COMPOSITION	RC 1/2T 4.7M-K/ERC-12GK 4	
R801		31028-378-335	R-COMPOSITION	RC 1/2T 3.3M-K/ERC-12GK 3	
R803	32157-210-003	0504-000137	TR-DIGITAL	KSR1202,NPN,300MW,10K-10K	
R804		A1008-0013	R-METAL PLATE	RP 5 MP-P R27-K MPC71 0.2	
R805		A1004-0431	R-METAL OXIDE	RS 2 RT(S) 103-J 10K	
R806		A1004-0431	R-METAL OXIDE	RS 2 RT(S) 103-J 10K	
R808		A1014-0094	R-CEMENT	RWC 5 I 110-J T WCR-ET	
R809	31018-377-229	2001-001096	R-CARBON(S)	2.2OHM,5%,1/2W,AA,TP,2.4X	
R810	A1000-0643	2001-001097	R-CARBON(S)	2.4KOHM,5%,1/2W,AA,TP,2.4	
R811	A1000-0643	2001-001097	R-CARBON(S)	2.4KOHM,5%,1/2W,AA,TP,2.4	
R812	32309-024-040	0604-000117	PHOTO-COUPLER	TR,130-260%,200MW,DIP-4,S	
R813	31018-377-122	2001-001046	R-CARBON(S)	1.2KOHM,5%,1/2W,AB,TP,2.4	
R814	A1000-0643	2001-001097	R-CARBON(S)	2.4KOHM,5%,1/2W,AA,TP,2.4	
R816	A1000-0586	2001-001117	R-CARBON(S)	2KOHM,5%,1/2W,AA,TP,2.4X6	
R820		A1014-0094	R-CEMENT	RWC 5 I 110-J T WCR-ET	
R822		31018-377-102	R-CARBON/METAL FILM	RD 1/2T 1K-J	
R823	31018-177-473	2001-000786	R-CARBON	47KOHM,5%,1/8W,AA,TP,1.8X	
R824	31018-177-473	2001-000786	R-CARBON	47KOHM,5%,1/8W,AA,TP,1.8X	
R825	31018-377-333	2001-001131	R-CARBON(S)	33KOHM,5%,1/2W,AA,TP,2.4X	
R826	31018-377-151	2001-001077	R-CARBON(S)	150OHM,5%,1/2W,AA,TP,2.4X	
R827		A1004-0405	R-METAL OXIDE	RS 2 RT(S) 100-J 10R	
R828	31018-177-472	2001-000734	R-CARBON	4.7KOHM,5%,1/8W,AA,TP,1.8	
R829		A1004-0431	R-METAL OXIDE	RS 2 RT(S) 103-J 10K	
R831		A1004-0345	R-METAL OXIDE	RS 3 N(S) 223-J 22K	
R832	31018-177-472	2001-000734	R-CARBON	4.7KOHM,5%,1/8W,AA,TP,1.8	
R833		2006-001002	R-CEMENT	1.2OHM,5%,5W,CB,TP,9X13X2	
R835		A1004-0469	R-METAL OXIDE	RS 2 RT 180-J	
R836		31018-377-102	R-CARBON/METAL FILM	RD 1/2T 1K-J	
R840	31018-377-152	2001-001051	R-CARBON(S)	1.5KOHM,5%,1/2W,AB,TP,2.4	
R841		A1010-0066	R-FUSIBLE	RF 2 RT R27-K	
R842		A1010-0066	R-FUSIBLE	RF 2 RT R27-K	
R843		A1010-0088	R-FUSIBLE	RF 1 RT R47-J	
R844		A1010-0066	R-FUSIBLE	RF 2 RT R27-K	
R845	A1004-0428	2003-000713	R-METAL OXIDE(S)	47OHM,5%,2W,AD,TP,4X12MM	
R855	31018-177-223	2001-000522	R-CARBON	22KOHM,5%,1/8W,AA,TP,1.8X	
R856		A1004-0458	R-METAL OXIDE	RS 2 RT 562-J 5.6K	
R857		2003-002007	R-METAL OXIDE(S)	4.7KOHM,5%,2W,AF,TP,3.9X1	
R858		2003-002007	R-METAL OXIDE(S)	4.7KOHM,5%,2W,AF,TP,3.9X1	
R859	31018-377-752	2001-001183	R-CARBON(S)	7.5KOHM,5%,1/2W,AB,TP,2.4	
R860	31018-377-432	2001-001143	R-CARBON(S)	4.3KOHM,5%,1/2W,AA,TP,2.4	
R862		A1010-0066	R-FUSIBLE	RF 2 RT R27-K	
R901	31018-177-102	2001-000429	R-CARBON	1KOHM,5%,1/8W,AA,TP,1.8X3	
R902	31018-177-102	2001-000429	R-CARBON	1KOHM,5%,1/8W,AA,TP,1.8X3	
R903	31018-177-102	2001-000429	R-CARBON	1KOHM,5%,1/8W,AA,TP,1.8X3	
R904	31018-177-102	2001-000429	R-CARBON	1KOHM,5%,1/8W,AA,TP,1.8X3	
R905	31018-177-222	2001-000449	R-CARBON	2.2KOHM,5%,1/8W,AA,TP,1.8	
R906	31018-177-102	2001-000429	R-CARBON	1KOHM,5%,1/8W,AA,TP,1.8X3	
R907	31018-177-102	2001-000429	R-CARBON	1KOHM,5%,1/8W,AA,TP,1.8X3	
R908	31018-177-102	2001-000429	R-CARBON	1KOHM,5%,1/8W,AA,TP,1.8X3	
R909	31018-177-103	2001-000290	R-CARBON	10KOHM,5%,1/8W,AA,TP,1.8X	
R910	31018-177-222	2001-000449	R-CARBON	2.2KOHM,5%,1/8W,AA,TP,1.8	

Loc No.	OLD Part-No	NEW Part-No	Description	Specification	Remarks
R911	31018-177-103	2001-000290	R-CARBON	10KOHM,5%,1/8W,AA,TP,1.8X	
R913	31018-177-103	2001-000290	R-CARBON	10KOHM,5%,1/8W,AA,TP,1.8X	
R914	31018-177-102	2001-000429	R-CARBON	1KOHM,5%,1/8W,AA,TP,1.8X3	
R915	31018-177-102	2001-000429	R-CARBON	1KOHM,5%,1/8W,AA,TP,1.8X3	
R916	31018-177-102	2001-000429	R-CARBON	1KOHM,5%,1/8W,AA,TP,1.8X3	
R917	31018-177-102	2001-000429	R-CARBON	1KOHM,5%,1/8W,AA,TP,1.8X3	
R918	31018-177-102	2001-000429	R-CARBON	1KOHM,5%,1/8W,AA,TP,1.8X3	
R919	31018-177-392	2001-000613	R-CARBON	3.9KOHM,5%,1/8W,AA,TP,1.8	
R922	31018-177-102	2001-000429	R-CARBON	1KOHM,5%,1/8W,AA,TP,1.8X3	
R923	31018-177-102	2001-000429	R-CARBON	1KOHM,5%,1/8W,AA,TP,1.8X3	
R924	31018-177-102	2001-000429	R-CARBON	1KOHM,5%,1/8W,AA,TP,1.8X3	
R925	31018-177-102	2001-000429	R-CARBON	1KOHM,5%,1/8W,AA,TP,1.8X3	
R927	31018-177-472	2001-000734	R-CARBON	4.7KOHM,5%,1/8W,AA,TP,1.8	
R928	31018-177-102	2001-000429	R-CARBON	1KOHM,5%,1/8W,AA,TP,1.8X3	
R930	31018-177-472	2001-000734	R-CARBON	4.7KOHM,5%,1/8W,AA,TP,1.8	
R931	31018-177-102	2001-000429	R-CARBON	1KOHM,5%,1/8W,AA,TP,1.8X3	
R932	31018-177-103	2001-000290	R-CARBON	10KOHM,5%,1/8W,AA,TP,1.8X	
R933	31018-177-102	2001-000429	R-CARBON	1KOHM,5%,1/8W,AA,TP,1.8X3	
R934	31018-177-102	2001-000429	R-CARBON	1KOHM,5%,1/8W,AA,TP,1.8X3	
R935	31018-177-102	2001-000429	R-CARBON	1KOHM,5%,1/8W,AA,TP,1.8X3	
R936	31018-177-152	2001-000241	R-CARBON	1.5KOHM,5%,1/8W,AA,TP,1.8	
R937	31018-177-101	2001-000281	R-CARBON	100OHM,5%,1/8W,AA,TP,1.8X	
R938	31018-177-101	2001-000281	R-CARBON	100OHM,5%,1/8W,AA,TP,1.8X	
R939	31018-177-101	2001-000281	R-CARBON	100OHM,5%,1/8W,AA,TP,1.8X	
R940	31018-177-101	2001-000281	R-CARBON	100OHM,5%,1/8W,AA,TP,1.8X	
R941	31018-177-101	2001-000281	R-CARBON	100OHM,5%,1/8W,AA,TP,1.8X	
R942	31018-177-101	2001-000281	R-CARBON	100OHM,5%,1/8W,AA,TP,1.8X	
R945*	31018-177-272	2001-000472	R-CARBON	2.7KOHM,5%,1/8W,AA,TP,1.8	
R946*	31018-177-103	2001-000290	R-CARBON	10KOHM,5%,1/8W,AA,TP,1.8X	
R947	31018-177-101	2001-000281	R-CARBON	100OHM,5%,1/8W,AA,TP,1.8X	
R948	31018-177-101	2001-000281	R-CARBON	100OHM,5%,1/8W,AA,TP,1.8X	
R949	31018-177-223	2001-000522	R-CARBON	22KOHM,5%,1/8W,AA,TP,1.8X	
R950	31018-377-106	2001-001062	R-CARBON(S)	10MOHM,5%,1/2W,AA,TP,2.4X	
R951	31018-177-151	2001-000362	R-CARBON	150OHM,5%,1/8W,AA,TP,1.8X	
R952	31018-177-222	2001-000449	R-CARBON	2.2KOHM,5%,1/8W,AA,TP,1.8	
R953	31018-177-101	2001-000281	R-CARBON	100OHM,5%,1/8W,AA,TP,1.8X	
R954	31018-377-122	2001-001046	R-CARBON(S)	1.2KOHM,5%,1/2W,AB,TP,2.4	
R955	31018-177-473	2001-000786	R-CARBON	47KOHM,5%,1/8W,AA,TP,1.8X	
R956	31018-177-471	2001-000780	R-CARBON	470OHM,5%,1/8W,AA,TP,1.8X	
RA802		31018-377-334	R-CARBON/METAL FILM	RD 1/2T 330K-J	
RB802		31018-377-334	R-CARBON/METAL FILM	RD 1/2T 330K-J	
RK01*	31018-177-561	2001-000857	R-CARBON	560OHM,5%,1/8W,AA,TP,1.8X	
RL01*	31018-177-223	2001-000522	R-CARBON	22KOHM,5%,1/8W,AA,TP,1.8X	
RL02*	31018-177-472	2001-000734	R-CARBON	4.7KOHM,5%,1/8W,AA,TP,1.8	
RL03*	31018-177-103	2001-000290	R-CARBON	10KOHM,5%,1/8W,AA,TP,1.8X	
RL04*		31018-177-752	R-CARBON/METAL FILM	RD 1/8T 7.5K-J	
RL05*	31018-177-103	2001-000290	R-CARBON	10KOHM,5%,1/8W,AA,TP,1.8X	
RL06*	31018-177-103	2001-000290	R-CARBON	10KOHM,5%,1/8W,AA,TP,1.8X	
RL07	31018-177-472	2001-000734	R-CARBON	4.7KOHM,5%,1/8W,AA,TP,1.8	
! RL801*	34729-004-010	3501-000285	RELAY-POWER	12V,-,10A,-,15MS,5MS	
RW701		B1018-0051	R-NETWORK	RN 1/8 CB 6P 33K/24K/75RX	
RW702		B1018-0050	R-NETWORK	RN 1/8 CA 5P 75RX3/1K-J T	
SF101		B1245-0063	FILTER-SAW	G3956M PAL-B/G VIF ST	
SFK01	34529-700-006	2904-000260	FILTER-SAW AV	38.9MHZ,SIP5P,ST	
SFL01*	B1245-0023	2904-000254	FILTER-SAW AV	34.5MHZ,SIP5P,ST	
! T201		AA26-10006A	TRANS-IF	-,7MG,VIF,0.15UH,7MM,5PF,	
! T401	32846-070-007	AA26-50001B	HORIZ.DRIVE	-,7-1MH,102UH,10-20UH,YLO	
! T444	A1201-0047	AA26-30002J	TRANS-FRYBACK	-,FCK-14A033,14",125V	
! T801	A1206-0103	AA26-20004J	TRANS-SWITCHING	-,90-260V,JIS,EER444515,6	
! TK01*	32717-513-800	AA26-10001Z	TRANS-IF	-,7MG,VIF,-,7MM,100PF,38.	
TOP	32073-0048-000	AA63-40027A	SHIELD-CASE,T	-,SPT,TO.25,ACT51A,K1025	

Loc No	OLD Part-No	NEW Part-No	Description	Specification	Remarks
! TU001	A1292-0080	AA40-10002M	TUNER-F/S	-,TECC2980PA19C,PAL-B/G,T	
X202	34537-011-010	2801-000276	CRYSTAL-UNIT	4.433619MHZ,40PPM,28-AAM,	
X901		34537-071-010	CRYSTAL	4.194304MHZ	
Z102		B1243-0052	FILTER-CERAMIC	TR 5.5M TPS5.5MMATF21	
ZK01*	34527-460-030	2903-000184	FILTER-CERAMIC	BP,5.5MHZ	
	32427-904-918	2701-000142	INDUCTOR-AXIAL	1UH,10%,2.5X3.4MM	
	36434-0132-000	AA39-20188A	LEAD-CONNECTOR,ASSY	-,YFH800-01,HR50009-2,1P,	
		ASSY-H/S			
! IC601	* 3H81-00320-000	AA96-50027A	ASSY-H/S	-,SOUND,31124-0025-000,TD	
	31124-0025-000	B4012-0472	IC-LINEAR	TDA7056/N2 SIP POWER AMP	
		ASSY-H/S			
! Q401	* 3H82-00530-001	AA96-50063B	ASSY-H/S	-,VERT,31124-0014-000,ISD	
	32159-210-070	0502-000443	TR-POWER	2SD1711YD,NPN,1500V,800V,	
		ASSY-H/S			
! IC301	* 3H82-00610-000	AA96-50071A	ASSY-H/S	-,VERT,311224-0024-000,TD	
	B4012-0437	1204-000441	IC-IF CIRCUIT	TDA8356,SIP,9P,-,PLASTIC,	
		ASSY-H/S			
! D818	* 3H83-00850-000	AA96-50123A	ASSY-H/S	-,POWER,31124-20029-000,F	
	32169-101-090	0402-000233	DIODE-RECTIFIER	FML-G12S,200V,5A,-	
		ASSY-H/S			
! IC805	* 3H84-00320-004	AA96-50147E	ASSY-H/S	-,TR,AA62-30012B,KA7812,-	
	A4008-0178	1203-000243	IC-POS1.FIXED REG.	7812,TO-220,3P,-,PLASTIC,	
		ASSY-H/S			
! IC812	* 3H84-00320-006	AA96-50147F	ASSY-H/S	-,TR,31123-0035-010,KA780	
	A4008-1045	1203-000284	IC-POS1.FIXED REG.	7806,TO-220,3P,-,PLASTIC,	
		ASSY-H/S			
! IC804	* 3H84-00380-003	AA96-50152C	ASSY-H/S	-,TR,31123-0035-000,KA780	
	A4008-1045	1203-000284	IC-POS1.FIXED REG.	7806,TO-220,3P,-,PLASTIC,	
		ASSY-H/S			
! Q801	* B4010-0034	AA96-50260A	ASSY-H/S	-,POWER,AA62-30004S,STR67	
		AA13-20002H	IC-HYBRID	-,STRS6707,SIP,9P,SMPS CO	
		ASSY-PCB,CRT			
	* 3R32-00017-000	AA95-20004F	ASSY-PCB,CRT	-,SCV11A,14",EUROPE,-	
PCB	36029-0442-000	AA41-10425A	PCB-CRT	SCV11A,1,CEM-1,95X80X1.6T	BARE PCB
R501	31018-177-102	2001-000429	R-CARBON	1KOHM,5%,1/8W,AA,TP,1.8X3	
R514	31018-177-221	2001-000515	R-CARBON	220OHM,5%,1/8W,AA,TP,1.8X	
R515	31018-177-221	2001-000515	R-CARBON	220OHM,5%,1/8W,AA,TP,1.8X	
R516	31018-177-221	2001-000515	R-CARBON	220OHM,5%,1/8W,AA,TP,1.8X	
R505	31018-177-222	2001-000449	R-CARBON	2.2KOHM,5%,1/8W,AA,TP,1.8	
R506	31018-177-222	2001-000449	R-CARBON	2.2KOHM,5%,1/8W,AA,TP,1.8	
R507	31018-177-222	2001-000449	R-CARBON	2.2KOHM,5%,1/8W,AA,TP,1.8	
R523	31018-377-101	2001-001060	R-CARBON(S)	100OHM,5%,1/2W,AB,TP,2.4X	
R520	31018-377-105	2001-001090	R-CARBON(S)	1MOHM,5%,1/2W,AB,TP,2.4X6	
R522	31018-377-820	2001-001195	R-CARBON(S)	82OHM,5%,1/2W,AA,TP,2.4X6	
C507	31417-106-090	2201-000556	C-CERAMIC,DISC	470PF,10%,500V,Y5P,6X3.5M	
C508	31417-106-090	2201-000556	C-CERAMIC,DISC	470PF,10%,500V,Y5P,6X3.5M	
C509	31417-106-090	2201-000556	C-CERAMIC,DISC	470PF,10%,500V,Y5P,6X3.5M	
C514	31417-109-220	2201-000379	C-CERAMIC,DISC	22NF,+80-20%,50V,Y5V,8.0X	
C501	31507-127-010	2301-000285	C-FILM,PEF	47NF,5%,50V,7.5X4.0X6.5,5	

Loc No	OLD Part-No	NEW Part-No	Description	Specification	Remarks
C502	31507-127-024	2305-000288	C-FILM,MPEF	220NF,5%,50V,7.3X4.8X5.5M	
C519	31607-401-690	2401-000832	C-AL	220UF,20%,25V,GP,8X11MM,5	
C510	31607-403-480	2401-001232	C-AL	4.7UF,20%,250V,GP,10X12.5	
		31018-377-335	R-CARBON/METAL FILM	RD 1/2T 3.3M-J	
△ R517		31028-328-272	R-COMPOSITION	RC 1/2T 2.7K-K/ERC-12GK 2	
△ R518		31028-328-272	R-COMPOSITION	RC 1/2T 2.7K-K/ERC-12GK 2	
△ R519		31028-328-272	R-COMPOSITION	RC 1/2T 2.7K-K/ERC-12GK 2	
△ R503		31049-275-182	R-METAL,FILM	RM 1/4T 1.6K-F	
△ R508		31049-276-182	R-METAL,FILM	RM 1/4T 1.8K-G	
△ R509		31049-276-182	R-METAL,FILM	RM 1/4T 1.8K-G	
△ R510		31049-276-182	R-METAL,FILM	RM 1/4T 1.8K-G	
△ R511		31049-375-104	R-METAL,FILM	RM 1/2T 100K-F	
△ R512		31049-375-104	R-METAL,FILM	RM 1/2T 100K-F	
△ R513		31049-375-104	R-METAL,FILM	RM 1/2T 100K-F	
△ C516		31519-002-530	C-M,POLYESTER	CFS922M 250V 0.47-J	
C515		31607-403-490	C-ELECTROLYTIC	CE04W TAPG 250V 10M-M	
IC501		32119-110-111	IC	TDA6101Q ZIP	
IC502		32119-110-111	IC	TDA6101Q ZIP	
IC503		32119-110-111	IC	TDA6101Q ZIP	
D501		32167-406-480	DIODE	1N4148 TAPG	
D502		32167-406-480	DIODE	1N4148 TAPG	
D504		32167-406-480	DIODE	1N4148 TAPG	
CN501B		33347-108-140	POST-HEADER	67094-006 (AUTO)	
CN502B		33347-108-180	POST-HEADER	67094-005 (AUTO)	
D503	32167-201-070	0402-000129	DIODE-RECTIFIER	1N4003,200V,1A,DO-41	
DZ501	32167-406-150	0403-000655	DIODE-ZENER	MTZ13A,13V,12.11-12.75V,5	
CN502B	33058-009-012	AA39-20020B	LEAD-CONNECTOR,ASSY	-,67096-005,S,5P,300,1007	
CN501B	33058-017-012	AA39-20027A	LEAD-CONNECTOR,ASSY	-,67096-006,S,6P,300,1007	
R502	A1006-0672	2004-001402	R-METAL(S)	6.8KOHM,1%,1/2W,AA,TP,2.4	
R524	A1010-0035	2008-000206	R-FUSIBLE(S)	10HM,5%,1/2W,AF,TP,2.5X6.	
C504	A1100-0824	2202-000162	C-CERAMIC,MLC-AXIAL	15PF,5%,50V,SL,3.5X19MM,-	
C505	A1100-0824	2202-000162	C-CERAMIC,MLC-AXIAL	15PF,5%,50V,SL,3.5X19MM,-	
C506	A1100-0824	2202-000162	C-CERAMIC,MLC-AXIAL	15PF,5%,50V,SL,3.5X19MM,-	
△ V999	A3047-0013	3704-000103	SOCKET-CRT	10P,22.5PI,14.3PI,SN	
C517	A3047-0013	A1100-0783	C-CERAMIC	CK 45 F 3KV 103-Z CK45FZ3	
C503	A3047-0013	A1104-0472	C-ELEC	CE 04 -40/85 25V T 102-M	
IC504	A4010-0095	AA13-20003C	IC-HYBRID	-,SPK101T,S1P,6P,SPOT KIL	
ASSY-AV					
		AA95-40007J	ASSY-AV	DP,TVP3350,SCV11A,-,MONO,	
PCB	36029-0581-000	AA41-10495A	PCB-A/V	SCV11B,1,FR-1,245X245X1.6	BARE PCB
CN701A	33058-313-020	AA39-20052C	LEAD-CONNECTOR,ASSY	-,YBNH025-04,YSH025-04,4P	
CN701B	36434-0010-030	AA39-20070C	LEAD-CONNECTOR,ASSY	-,YBNH025-07,67096-007,7P	
CY701	A1100-0798	2202-000121	C-CERAMIC,MLC-AXIAL	100PF,10%,50V,Y5P,1.9X3.5	
CY702	A1100-0798	2202-000121	C-CERAMIC,MLC-AXIAL	100PF,10%,50V,Y5P,1.9X3.5	
JA01	33339-030-050	3722-000179	JACK-RCA	1P,3.4MM,-,SN	
JA02	33339-030-040	3722-000182	JACK-RCA	1P,3.4MM,-,SN	
JY702	33339-521-070	3722-000143	JACK-PHONE	1P,3.4MM,-,MBAG	
LY701	32427-904-924	2701-000114	INDUCTOR-AXIAL	10UH,10%,2.5X3.4MM	
LY702	32427-904-924	2701-000114	INDUCTOR-AXIAL	10UH,10%,2.5X3.4MM	
RY701	31018-377-101	2001-001060	R-CARBON(S)	100OHM,5%,1/2W,AB,TP,2.4X	

Loc No.	OLD Part-No	NEW Part-No	Description	Specification	Remarks
ASSY-PCB,VPS					
*		AA95-90008M	ASSY-PCB,VPS	- ,TVP3350X,SCV11B,-,-,-	
PCB	36029-0443-000	AA41-10426A	PCB-TTX	SCV11A,1,CEM-1,50X65X1.6T	BARE PCB
BRACKET	33014-0011-000	AA61-10068A	BRACKET-PCB	- ,SPTE,- ,T0.3,- ,-,M2160	
CP01	31607-401-480	2401-000808	C-AL	220UF,20%,16V,GP,8X11MM,5	
CP02	A1100-0799	2202-000154	C-CERAMIC,MLC-AXIAL	150PF,10%,50V,Y5P,- ,-,TP	
CP03	A1102-0292	2305-000355	C-FILM,MPEF	330NF,5%,63V,- ,5MM,TP	
CP05	31507-127-009	2301-000247	C-FILM,PEF	33NF,5%,50V,8.1X4.5X13MM,	
CP06	31417-344-104	2201-000119	C-CERAMIC,DISC	100NF,+80-20%,50V,Y5V,8X5	
J325	31018-177-101	2001-000281	R-CARBON	100OHM,5%,1/8W,AA,TP,1.8X	
LP01	32427-904-924	2701-000114	INDUCTOR-AXIAL	10UH,10%,2.5X3.4MM	
RP01	31018-177-101	2001-000281	R-CARBON	100OHM,5%,1/8W,AA,TP,1.8X	
RP02	31018-177-101	2001-000281	R-CARBON	100OHM,5%,1/8W,AA,TP,1.8X	
RP03		31018-177-823	R-CARBON/METAL FILM	RD 1/8T 82K-J	
RP04	31018-177-222	2001-000449	R-CARBON	2.2KOHM,5%,1/8W,AA,TP,1.8	
RP05	31018-177-105	2001-000435	R-CARBON	1MOHM,5%,1/8W,AA,TP,1.8X3	
RP06		31018-177-824	R-CARBON/METAL FILM	RD 1/8T 820K-J	
RP08	31018-177-101	2001-000281	R-CARBON	100OHM,5%,1/8W,AA,TP,1.8X	
RP10		31018-177-682	R-CARBON/METAL FILM	RD 1/8T 6.8K-J	
TC01	A1100-0340	2202-000109	C-CERAMIC,MLC-AXIAL	100NF,+80-20%,50V,Y5P,1.9	
TC02	A1100-0838	2202-000143	C-CERAMIC,MLC-AXIAL	10PF,5%,50V,NPO,1.9X3.5MM	
TC03	A1100-0824	2202-000162	C-CERAMIC,MLC-AXIAL	15PF,5%,50V,SL,3.5X19MM,-	
TC04	A1100-0338	2202-000173	C-CERAMIC,MLC-AXIAL	1NF,10%,50V,Y5P,1.9X3.5MM	
TC05	A1100-0340	2202-000109	C-CERAMIC,MLC-AXIAL	100NF,+80-20%,50V,Y5P,1.9	
TC06	A1100-0340	2202-000109	C-CERAMIC,MLC-AXIAL	100NF,+80-20%,50V,Y5P,1.9	
TC07	A1100-0340	2202-000109	C-CERAMIC,MLC-AXIAL	100NF,+80-20%,50V,Y5P,1.9	
TC08	A1100-0340	2202-000109	C-CERAMIC,MLC-AXIAL	100NF,+80-20%,50V,Y5P,1.9	
TC09	A1100-0340	2202-000109	C-CERAMIC,MLC-AXIAL	100NF,+80-20%,50V,Y5P,1.9	
TC11	31607-401-300	2401-000254	C-AL	100UF,20%,10V,LL,8X11MM,5	
TC12	A1100-0799	2202-000154	C-CERAMIC,MLC-AXIAL	150PF,10%,50V,Y5P,- ,-,TP	
TD02		32167-406-480	DIODE	1N4148 TAPG	
TD04		32167-406-480	DIODE	1N4148 TAPG	
TD06		32167-406-480	DIODE	1N4148 TAPG	
TD07		32167-406-480	DIODE	1N4148 TAPG	
TL01	32427-805-835	2701-000170	INDUCTOR-AXIAL	3.9UH,10%,2.8X7MM	
TR01	31018-177-132	2001-000232	R-CARBON	1.3KOHM,5%,1/8W,AA,TP,1.8	
TR02	31018-177-102	2001-000429	R-CARBON	1KOHM,5%,1/8W,AA,TP,1.8X3	
TR04	31018-177-273	2001-000563	R-CARBON	27KOHM,5%,1/8W,AA,TP,1.8X	
TR05	31018-177-392	2001-000613	R-CARBON	3.9KOHM,5%,1/8W,AA,TP,1.8	
TR06	31018-177-392	2001-000613	R-CARBON	3.9KOHM,5%,1/8W,AA,TP,1.8	
TR07	31018-177-392	2001-000613	R-CARBON	3.9KOHM,5%,1/8W,AA,TP,1.8	
TR08	31018-177-101	2001-000281	R-CARBON	100OHM,5%,1/8W,AA,TP,1.8X	
TR09	31018-177-101	2001-000281	R-CARBON	100OHM,5%,1/8W,AA,TP,1.8X	
TR10	31018-177-101	2001-000281	R-CARBON	100OHM,5%,1/8W,AA,TP,1.8X	
TR13	31018-177-272	2001-000472	R-CARBON	2.7KOHM,5%,1/8W,AA,TP,1.8	
		B4012-0612	IC-LINEAR	SDA5642 SDIP ST VPS 14P	
ASSY-SPEAKER					
		3001-001015	SPEAKER	2.5W,16OHM	
		AA39-20015D	LEAD-CONNECTOR	-6,67096-003,-3(2)P	
ASSY-PCB,MODULE					
* 3R76-00022-000	AA95-90007E	ASSY-PCB,MODULE	- ,SV-H30XK,PS14,PAL,-,-,-		



Loc No.	OLD Part-No	NEW Part-No	Description	Specification	Remarks
ASSY-POWER,CORD					
⚠	33053-816-702	AA39-10001M	POWER-CORD	- ,KJP-140,KLCE-2F,2.4M,H0	
	33323-0001-010	AA61-20045A	HOLDER-CORD	- ,PP,V0,BLK,DO,-	
REMOCON					
	*	AA59-10033J	REMOCON	DP,TM48,-,-,AA59-10027L,-	
ASSY-CRT					
⚠	32019-400-083	AA03-10001D	CRT-COLOR	- ,A34KQV42X,+380MG,14",90	
	32439-210-090	AA27-50001K	DEFLECTION-YOKE	- ,DSE-1422FL,14"/A34KQV42	
	A1155-0004	AA27-60001L	MAGNET-CONVERGENCE	- ,NY-225,22.5MM	
	33309-0020-000	AA63-60028A	SPACER-DY	- ,NEOPRENE,- ,BLK,V0 W12,-	
ASSY-ACCESSORY					
T/M	32759-113-010	AA26-90001C	TRANS-MATCHING	- ,300OHM/75OHM,PAL,40-890	
A/R	34509-223-023	AA42-10001C	ANT-ROD	- ,4S,620MM,SUS,UL/CSA	
I/B	34709-1098-000	AA68-10389A	MANUAL-USERS	- ,W/P 100(G),-,-,ENG	LOCAL
I/B	34709-1101-000	AA68-10390A	MANUAL-USERS	- ,W/P 100(G),-,-,GER	LOCAL
W/C	A0120-2000	AA68-40044A	CARD-WARRANTY	- ,-,L1850,W105,WHT,EC(12)	LOCAL

### 8-3 TVP3350X/SSSX,TVP3350X/SPSX Dissimilar Parts

Loc No.	OLD Part-No	NEW Part-No	Description	Specification	Remarks
			ASSY-PCB,MAIN(OPT) BUYER : SESA (SPAIN)		
	*	AA94-10064K	ASSY-PCB,MAIN(OPT)	TVP3350X/SSSX,SCV11B,SPA I	
			ASSY-ACCESSORY		
I/B		AA68-10392A	MANUAL-USERS	-,W/P 100(G),-,-,SPA	
S/N		AA68-20014A	MANUAL-SERVICE	-,A/P 120(G),-,-,SPAIN	
			ASSY-PCB,MAIN(OPT) BUYER : SEP (PORTUGL)		
	*	AA94-10064M	ASSY-PCB,MAIN(OPT)	TVP3350X/SPSX,SCV11B,PORT	
			ASSY-ACCESSORY		
I/B		AA68-10373A	MANUAL-USERS	-,W/P 100(G),-,-,POR	

## 8-4 TUNER Dissimilar Parts

No.	Loc No.	1TUNER	2TUNER	Remarks
1	D835	1N4148	-	1TUNER MODEL VPS 1CHIP POWER SUPPLY
2	IC808	-	KA78R12	2'ND 12V
3	R832	-	1/8T 4.7K	IC808 CONTROL PORT
4	C834	-	50V 104 <P>	KA78R12 FILTER C
5	C835	-	25V 471M	KA78R12 FILTER C
6	J224	-	JUMPER	2'ND T 12V
7	J365*	JUMPER	-	2'ND T 12V OFF
8	R831	2W 22K	3W 15K	1' ST 12V POWER SUPPLY
9	J362	-	JUMPER	33V METAL (125V-33V)
10	ICU101	-	KA7805	2'ND T 5V
11	JU004	-	.	5V, CONSTANT VOLTAGE IC
12	JU003	-	.	.
13	JU006	-	.	.
14	JU009	-	.	.
15	JU016	-	.	.
16	J363	-	.	SPLITTER B+
17	RU101	-	1/8T 100	2'ND T SDA
18	RU103	-	1/8T 100	2'ND SCL
19	JU021	-	JUMPER	2'ND T AFT
20	JU013	-	.	.
21	J202	-	.	.
22	R928	-	1/8T 1K	.
23	JU022	-	JUMPER	2'ND T CVBS OUT
24	JU025	-	.	2'ND 12V
25	JU026	-	.	2'ND T 33V
26	J255	-	JUMPER	2'ND 5V
27	JU014	-	.	2'ND T 12V
28	RU106	-	1/8K 82K	2'ND T AGC FULL-DOWN
29	RU107	-	1/8K 15K	2'ND T AGC FULL-UP
30	JU015	-	JUMPER	2'ND T AGC
31	RU102	-	1/8K 10K	2'ND TUNER 'ADD' FULL-UP
32	RU104	-	.	2'ND TUNER B/G, S-L FULL-UP
33	RU105	-	.	2'ND TUNER DK/FRA FULL-UP
34	CU101	-	16V 220uF	2ND 5V REG
35	CU102	-	16V 220uF	.
36	CU103	-	50V 104J	.
37	TU001	TECC2989PA19C	TECC2889PA19C	1' ST TUNER
38	TU002	-	TECC0889PA19C	2'ND TUNER
39	SP001	-	SPLITTER	NOT APPLIED TO FRANCE
40	J298*	JUMPER	-	EXT-VID OUT 1T/2T OPTION
41	J309*	.	-	EXT-AUD OUT 1T/2T OPTION
42	R711	1/8T 1K	1/8T 75	
43	R712	1/8T 1K	1/8T 100	

## 8-5SCV11A SYSTEM OPTION TABEL

NO	SYSTEM LOCATION	PAL/SECAM B/G (X,XT)	PAL B/G (ITALY)	PAL B/G (AUSTRALIA)	PAL I (UNITED KINGDOM)	PAL/SECAM B/G,D/K (K/DT/W)	PAL/SECAM D (CHINA)	PAL/SECAM B/G,S-L (FRANCE)	REMARK
1	SF101	G3956M	G3956M	G3956M	G3956M	G3956M	G3956M	G3956M	TDA8374/VIF SAW
2	SFK01	K9253M	K9253M	K9253M	K9253M	K9253M	K9253M	K9253M	TDA3845
3	ICK02*	-	-	-	-	TC4052BP	TC4052BP	-	SOUND SWITCHING
4	RK02*	-	-	-	-	8/1T 560	8/1T 560	-	6.5BPF MATCHING
5	-	-	-	-	-	-	-	-	-
6	ZK01*	SFSH5.5MCB	SFSH5.5MCB	SFSH5.5MCB	SFSH5.5MCB	SFSH5.5MCB	SFSH5.5MCB	SFSH5.5MCB	B/G SOUND BPF
7	RK00*	-	-	-	-	-	8/1T 560	-	CHINA<6.0 BPF>
8	ZK00*	-	-	-	-	-	SFSH6.0MCB	-	-
9	J115	-	-	-	-	-	JUMPER	-	CHINA 6.0
10	J113	-	-	-	-	JUMPER	-	-	5.5/6.0 CONNEC-
11	J108	JUMPER	JUMPER	JUMPER	JUMPER	-	-	JUMPER	TC4052BP
12	JA108*	-	-	-	-	JUMPER	JUMPER	-	-
13	R121	-	-	-	-	1/8 33K	1/8 33K	-	D/K,FR''H''CON-
14	R103	-	-	-	-	1/8 10K	1/8 10K	-	-
15	R104	-	-	-	-	-	-	1/8 10K	BG/S-L''H''CON-
16	R120	-	-	-	-	-	-	1/8 33K	-
17	J131	-	-	-	-	JUMPER	JUMPER	JUMPER	-
18	J122	-	-	-	-	-	-	-	-
19	J120	-	-	-	-	-	-	-	-
20	Z102	TPS5.5MW	TPS5.5MW	TPS5.5MW	TPS6.0MW	TPS5.5/6.5MW	TPS5.5MW	TPS5.5MW	CVBS SOUND TRAP
21	Z103	-	-	-	-	TPS6.5MB	TPS6.0MB	TPS6.5MB	CVBS SOUND TRAP
22	IC203*	TDA8395P	TDA8395P	-	-	TDA8395P	TDA8395P	TDA8395P	SECAM PRO- IC
23	C223	63V 224 <P>	-	-	-	63V 224 <P>	63V 224 <P>	63V 224 <P>	TDA8395P #8
24	C224*	50V 104 <P>	-	-	-	50V 104 <P>	50V 104 <P>	50V 104 <P>	TDA8395P #7
25	J326	JUMPER	-	JUMPER	JUMPER	JUMPER	JUMPER	JUMPER	SCART #14 OPTION
26	ICL01*	-	-	-	-	-	-	STV8225	AM SOUND S-L
27	SFL01*	-	-	-	-	-	-	L9461M	AM SOUND SAW
28	CL01*	-	-	-	-	-	-	25V 103 <AX>	S-L SAW SWITCHI
29	PL01*	-	-	-	-	-	-	1/8T 22K	-
30	RL02*	-	-	-	-	-	-	1/8T 4.7K	-
31	RL03*	-	-	-	-	-	-	1/8T 10K	-
32	RL04*	-	-	-	-	-	-	1/8T 7.5K	-
33	RL05*	-	-	-	-	-	-	1/8T 10K	STV8225 #4
34	RL06*	-	-	-	-	-	-	1/8T 10K	FM SOUND B/R BASE
35	RL07	-	-	-	-	-	-	1/8T 4.7K	FM SOUND B/R 'E'
36	CL02	-	-	-	-	-	-	50V 4.7u<NP>	-
37	CL04*	-	-	-	-	-	-	50V 102K ,AX	STV8225 #13
38	CL05*	-	-	-	-	-	-	25V 10uF	STV8225 #2
39	QL01*	-	-	-	-	-	-	KSR1010	SAW WITCHING
40	QL02*	-	-	-	-	-	-	KSR1202	-
41	DL01*	-	-	-	-	-	-	1S1286	-
42	DL02*	-	-	-	-	-	-	-	-
43	QL03	-	-	-	-	-	-	KSC815-Y	FM SOUND B/R TR
44	J145*	-	-	-	-	-	-	JUMPER	-
45	J144*	-	-	-	-	-	-	-	AM S-L SWITCHING
46	J111*	JUMPER	JUMPER	JUMPER	JUMPER	JUMPER	JUMPER	-	STV8225 NO
47	J114*	-	-	-	-	-	-	-	-
48	J234	-	-	-	-	-	-	-	-
49	J164	-	-	-	-	-	-	-	-
50	R945*	-	-	-	-	-	-	1/8T 2.7K	S-L CONTROL
51	R946*	-	-	-	-	-	-	1/8T 10K	-
52	C914*	-	-	-	-	-	-	50V 4.7uF	-
53	J177	-	-	-	-	-	-	JUMPER	-
54	J318	-	-	-	-	-	-	-	-
55	J290	-	-	-	-	-	-	-	-
56	C101*	50V 22uF	50V 22uF	50V 22uF	50V 22uF	50V 22uF	50V 22uF	16V 100uF	S-L FILKER UP

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## 9. Block Diagrams

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### 9-1 SCV11A,B Video Block Diagram

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#### 9-1-1 Notes

The TV's 1st and 2nd tuners (and VCR module) are "multi-system." compatible: IC201 (TDA8374) is the video, chroma, and deflection (VCD) IC .

##### 9-1-1(A) TAPE PLAYBACK (REGARDLESS OF ORIGINAL RECORDING SYSTEM)

If the output PB signal of micom pin 6 is high, the PB signal outputs from module deck 1, passes through IC 702 pins 1 and 8 and out to another VCR . The output signal of IC701 pin 1 (pin 15) outputs from IC201 pin 17 (RBG OUT).

##### 9-1-1(B) VIEWING NORMAL CHANNEL WHILE RECORDING A SCRAMBLED CHANNEL:

The output CVBS (Composite Video Signal) of the 2nd IF outputs to pin 8 when the micom's pin 7 V/T/H (VCR tuner high) is high (IC702 pin 3). The decoded signal goes to IC701 pin 2, where it is fed to IC 701 pin 4 (high output of micom's' pin 8-- AV/Tuner), and out to VCR pin 3 (module deck) for recording.

##### 9-1-1(C) VIEWING A SCRAMBLED CHANNEL WHILE RECORDING A NORMAL CHANNEL RECORDED:

The output CVBS of the 2nd IF is fed from IC801 pin 5 to IC702 pin 4 (low output of micom pin 8--AV/tuner). Then it goes to the module deck pin 3 for recording.

The scrambled signal (CVBS) is fed to IC702 pin 6 through the 1st IF, and then to IC702 pin 8 (micom's pin 7, V/T/H registers low).. Then it goes to the decoder input. The descrambled signal goes to IC701 pins 2 and 15 (PH high output of micom's pin 6), and then to IC201 pin 17, where it outputs as RGB.

##### 9-1-1(D) SYNCHRONOUS RECORDING:

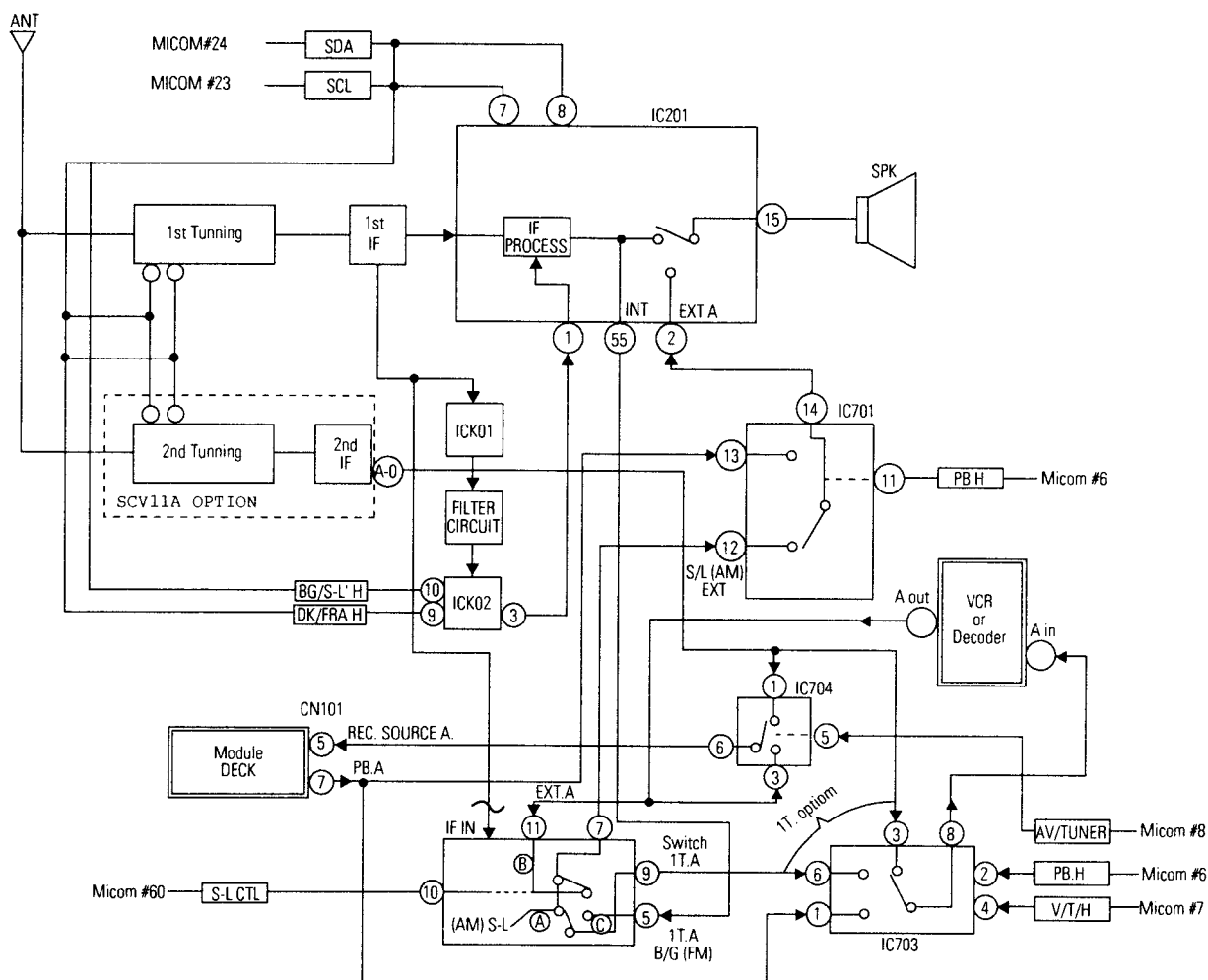
The viewer sees the signal from the 1st tuner , while the signal from the second tuner is recorded. Audio processing for the French system type is shown in the table.

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## 9-2 SCV11A,B Audio Block Diagram



### Micom Pin Function

PIN NO.	PIN NAME	FUNCTION																		
6	PB H	High output : PB audio is monitored. The PB audio is output at scart.																		
7	V/T/H	High output : The second tuner audio is output at a scart.																		
8	AV/TUNER	High output : AV audio is recorded. Low output : TUNER audio is recorded.																		
60	S-L CTL ①: S-L(AM) ②: B/G (FM) ③: EXT	① 1.8 ~ 2.6V : In TV FM Mode, connect pin 7 to A and pin 9 to C. ② 4.1 ~ 4.9V : In TV AM Mode, connect pin 7 to A and pin 9 to A. ③ 6.4 ~ 7.2V : In AV-AM Mode, connect pin 7 to B and pin 9 to A. ④ More than 7.3V : In AV-FM Mode, connect pin 7 to B and pin 9 to C.																		
23,24	SDA, SCL BG/S-L' H DK/FRA H	<table border="1"> <thead> <tr> <th>Port</th><th>B/G</th><th>D/K</th></tr> </thead> <tbody> <tr> <td>S</td><td></td><td></td></tr> <tr> <td>AUTO</td><td>H</td><td>H</td></tr> <tr> <td>BG (NT)</td><td>H</td><td>L(111)</td></tr> <tr> <td>DK</td><td>L</td><td>H</td></tr> <tr> <td>I</td><td>L</td><td>L</td></tr> </tbody> </table> <p>           ① When system is output (111), mark with NT3.58 instead of B/G            ② Extra control signals are all controlled by the IC bus.         </p>	Port	B/G	D/K	S			AUTO	H	H	BG (NT)	H	L(111)	DK	L	H	I	L	L
Port	B/G	D/K																		
S																				
AUTO	H	H																		
BG (NT)	H	L(111)																		
DK	L	H																		
I	L	L																		

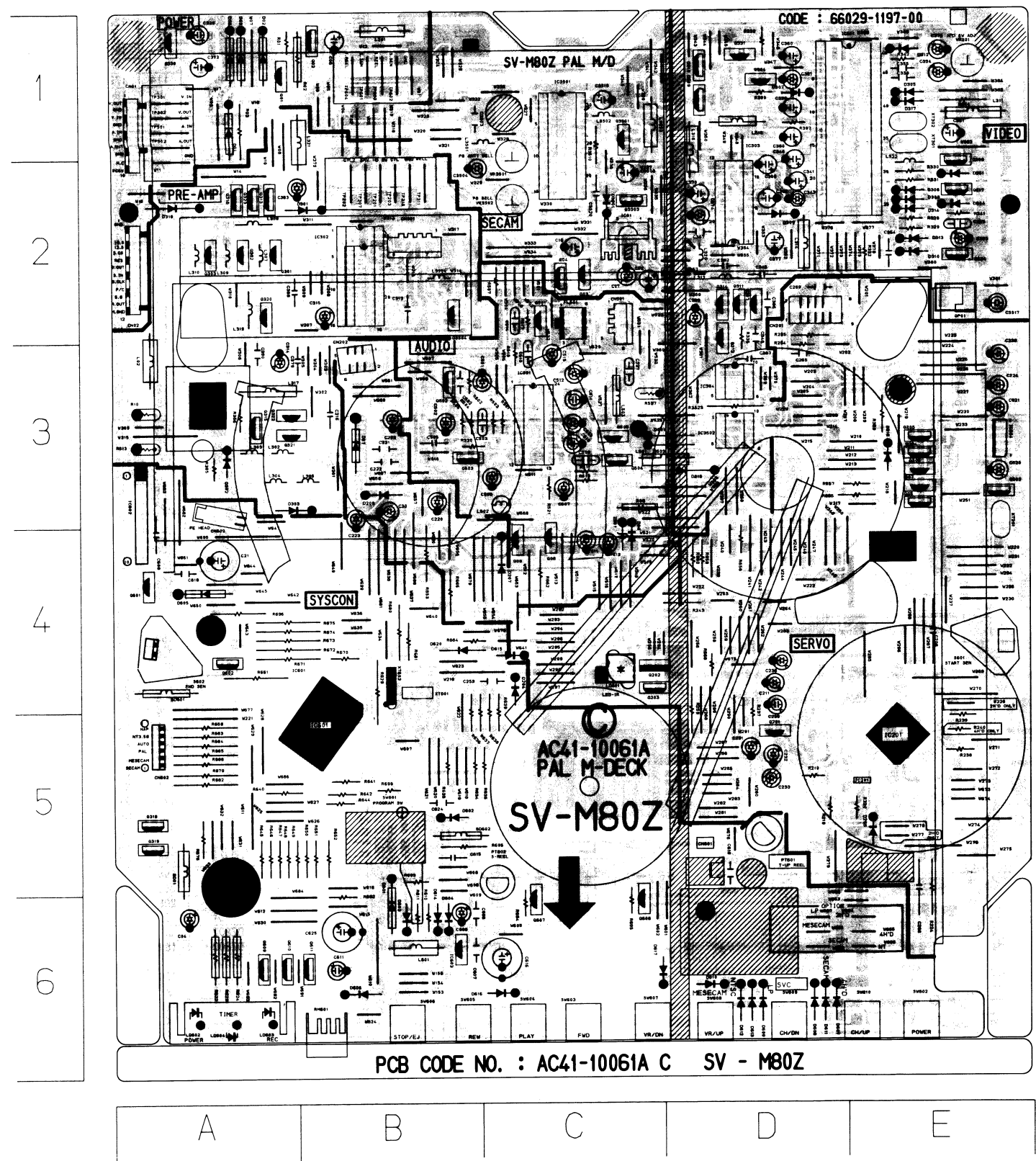
# Memo

[illegible]



10. PCB Layout Diagram

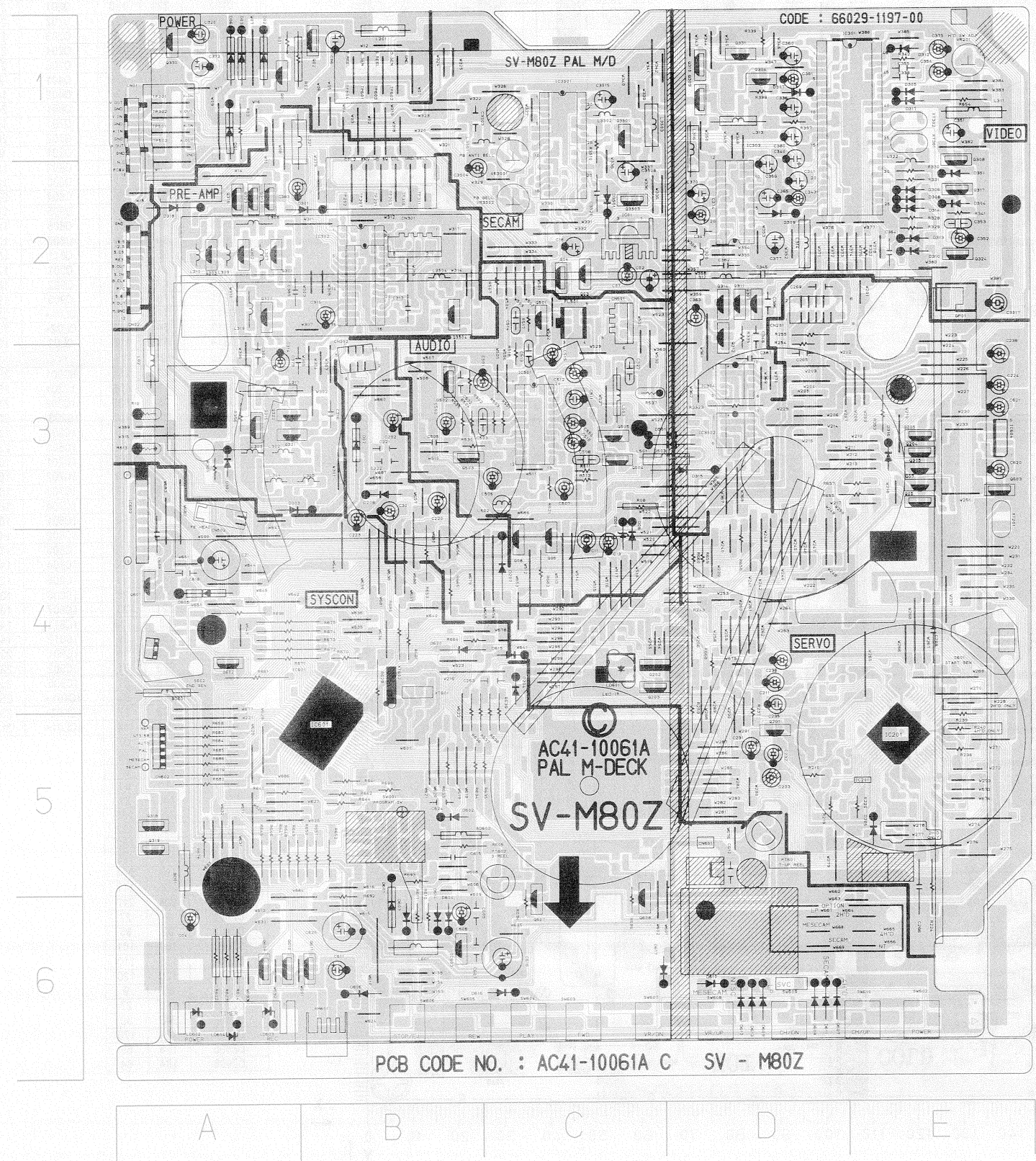
10-1 Video Main



LOC NO	X,Y	LOC NO	X,Y
TRANSISTOR		I C	
Q01	A-1	IC01	C-2
Q03	C-2	IC301	E-1
Q04	C-2	IC302	B-2
Q05	E-3	IC303	D-1
Q06	C-4	IC304	D-3
Q07	E-3	IC3S01	C-1
Q08	C-4	IC3S02	D-3
Q201	D-5	IC501	C-3
Q202	C-4	IC602	A-3
Q203	C-4	IC603	B-6
Q204	E-3	IC604	E-3
Q205	E-3	DIODE	
Q3S01	C-1	D01	A-1
Q3S03	C-2	D02	A-1
Q501	C-2	D03	A-1
Q502	B-3	D06	A-1
Q503	B-3	D07	B-3
Q601	A-4	D603	D-6
Q602	A-4	D607	D-6
Q603	E-3	D608	D-6
Q607	C-6	D610	E-6
Q608	C-6	D611	D-6
Q609	A-6	D612	D-6
Q610	A-6	D613	D-6
Q611	B-6	ZD01	C-4
Q301	C-2	ZD201	C-3
Q302	B-2	ZD202	C-3
Q303	A-2		
Q304	D-1		
Q305	E-3		
Q307	D-2		
Q308	E-1		
Q309	D-1		
Q310	D-1		
Q311	D-2		
Q312	D-2		
Q313	A-2		
Q314	D-2		
Q315	A-3		
Q316	A-2		
Q317	E-1		
Q318	A-5		
Q319	A-5		
Q320	A-2		
Q321	A-3		
Q322	A-3		
Q323	A-2		
Q324	E-1		
Q330	A-1		
Q331	D-1		

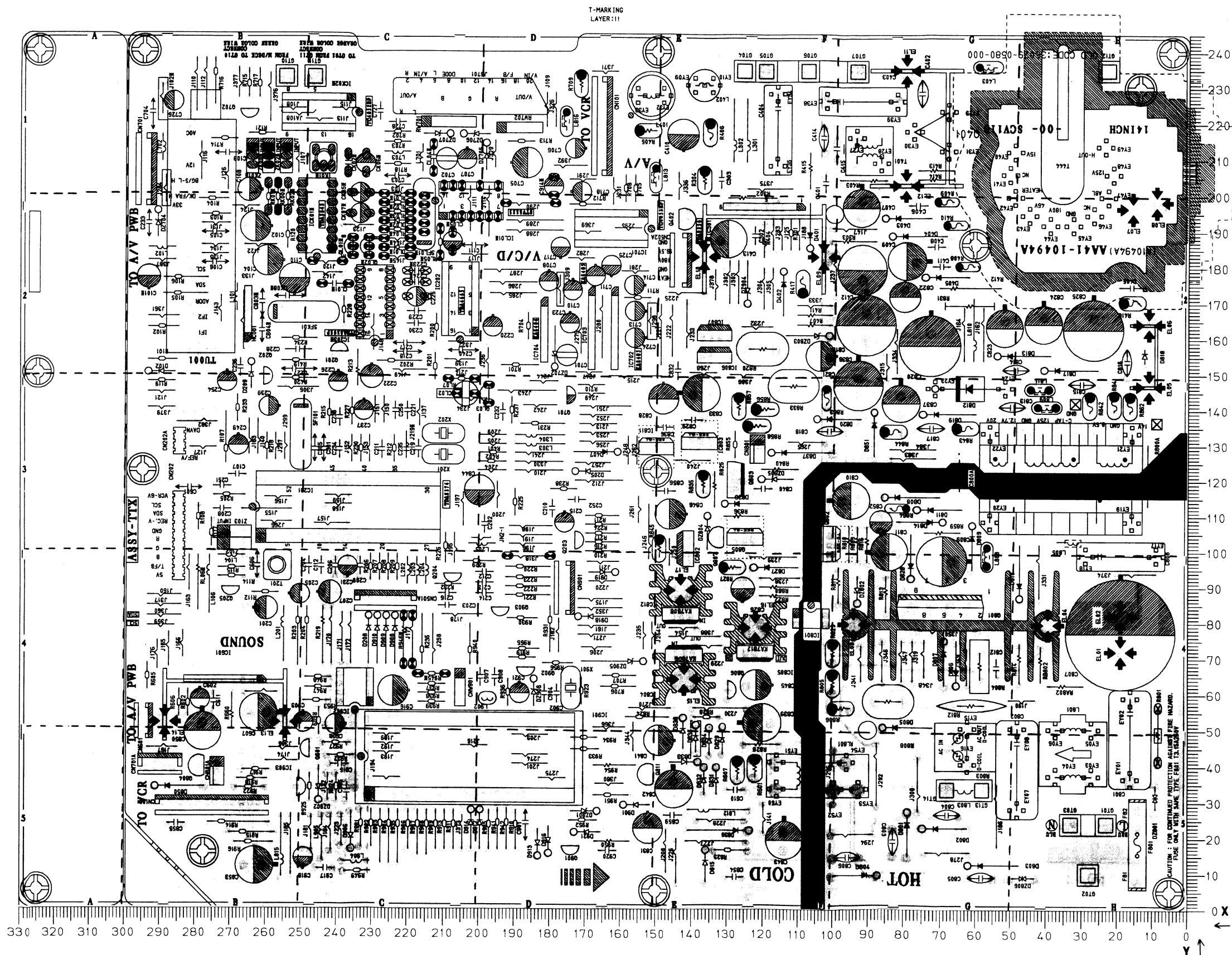
10. PCB Layout Diagram

10-1 Video Main



LOC NO	X,Y	LOC NO	X,Y
TRANSISTOR		I C	
Q01	A-1	IC01	C-2
Q03	C-2	IC301	E-1
Q04	C-2	IC302	B-2
Q05	E-3	IC303	D-1
Q06	C-4	IC304	D-3
Q07	E-3	IC3S01	C-1
Q08	C-4	IC3S02	D-3
Q201	D-5	IC501	C-3
Q202	C-4	IC602	A-3
Q203	C-4	IC603	B-6
Q204	E-3	IC604	E-3
Q205	E-3	DIODE	
Q3S01	C-1	D01	A-1
Q3S03	C-2	D02	A-1
Q501	C-2	D03	A-1
Q502	B-3	D06	A-1
Q503	B-3	D07	B-3
Q601	A-4	D603	D-6
Q602	A-4	D607	D-6
Q603	E-3	D608	D-6
Q607	C-6	D610	E-6
Q608	C-6	D611	D-6
Q609	A-6	D612	D-6
Q610	A-6	D613	D-6
Q611	B-6	ZD01	C-4
Q301	C-2	ZD201	C-3
Q302	B-2	ZD202	C-3
Q303	A-2		
Q304	D-1		
Q305	E-3		
Q307	D-2		
Q308	E-1		
Q309	D-1		
Q310	D-1		
Q311	D-2		
Q312	D-2		
Q313	A-2		
Q314	D-2		
Q315	A-3		
Q316	A-2		
Q317	E-1		
Q318	A-5		
Q319	A-5		
Q320	A-2		
Q321	A-3		
Q322	A-3		
Q323	A-2		
Q324	E-1		
Q330	A-1		
Q331	D-1		





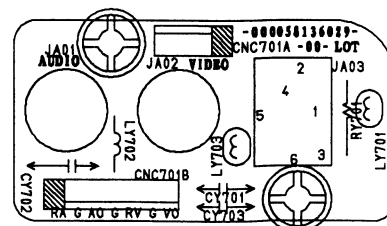
LOC. NO	X	Y	LOC. NO	X	Y
DIODE			TRANSISTOR		
D102	293	150	Q201	237	158
D205	173	122	Q202	261	148
D208	231	81	Q203	173	100
D209	284	153	Q204	210	93
D401	107	185	Q205	272	89
D402	114	179	Q401	79	235
D403	85	194	Q402	142	191
D404	83	189	Q601	247	48
D405	74	177	Q701	175	141
D407	181	128	Q702	267	223
D801	78	27	Q801	94	79
D802	74	22	Q802	100	99
D803	62	12	Q803	128	117
D804	87	9	Q804	278	41
D805	85	50	Q805	122	104
D806	65	82	Q806	129	58
D807	69	75	Q807	132	106
D808	85	115	Q811	152	40
D809	81	107	Q901	176	17
D810	47	87	Q902	189	67
D811	76	112	Q903	196	84
D812	71	146	QL01*	236	188
D813	54	155	QL02*	231	188
D814	69	108	QL03	197	146
D815	136	18	I C		
D817	40	151	HC001	265	160
D818	12	158	IC201	261	120
D819	75	139	IC202	210	162
D820	104	137	IC203*	234	161
D827	122	95	IC301	137	183
D828	78	92	IC601	288	51
D829	131	50	IC701	154	188
D831	133	39	IC702	162	173
D832	136	39	IC703	168	173
D833	138	41	IC704	182	170
D834	135	50	IC801	102	82
D835	138	51	IC802	141	104
D836	130	113	IC803	135	131
D837	117	128	IC804	142	84
D838	142	53	IC805	122	78
D839	123	22	IC806	130	154
D850	291	33	IC807	130	161
D851	88	139	IC811	147	129
D901	159	29	IC812	143	89
D906	235	16	IC901	230	52
D908	223	81	IC902	239	57
D909	226	81	IC903	251	31
D910	228	81	ICK01*	250	185
D912	199	27	ICK02*	237	218
D913	183	14	ICL01*	210	202
D914	202	27			
D916	180	15			
D918	172	81			
D919	161	94			
D921	173	21			
DL01*	227	185			
DL02*	227	192			
DZ702	179	152			
DZ704	293	195			
DZ705	198	214			
DZ706	205	217			
DZ707	208	217			
DZ801	9	27			
DZ802	93	85			
DZ803	101	181			
DZ804	135	110			
DZ805	120	120			
DZ806	50	9			
DZ901	166	27			
DZ902	245	30			
DZ904	124	170			
DZ905	153	89			
DZ906	184	64			



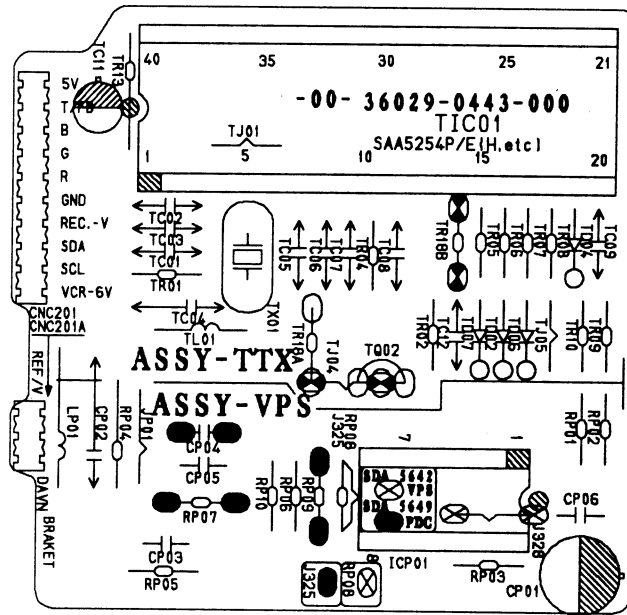


LOC' NO	X	Y	LOC' NO	X	Y
<i>D10E</i>			<i>TRANSISTOR</i>		
D102	293	150	Q201	237	156
D205	173	122	Q202	261	146
D208	231	81	Q203	173	100
D209	264	153	Q204	210	93
D401	107	185	Q205	272	89
D402	114	179	Q401	79	235
D403	85	194	Q402	142	191
D404	83	189	Q601	247	46
D405	74	177	Q701	175	141
D407	161	128	Q702	267	223
D801	78	27	Q801	94	79
D802	74	22	Q802	100	99
D803	62	12	Q803	128	117
D804	87	9	Q804	278	41
D805	85	50	Q805	122	104
D806	65	82	Q806	129	58
D807	69	75	Q807	132	106
D808	85	115	Q811	152	40
D809	61	107	Q901	176	17
D810	47	87	Q902	189	67
D811	76	112	Q903	196	84
D812	71	146	QL01*	236	188
D813	54	155	QL02*	231	188
D814	69	108	QL03	197	146
D815	136	16	<i>I C</i>		
D817	40	151	HC001	265	160
D818	12	158	IC201	261	120
D819	75	139	IC202	210	162
D820	104	137	IC203*	234	161
D827	122	95	IC301	137	183
D828	78	92	IC601	288	51
D829	131	50	IC701	154	186
D831	133	39	IC702	162	173
D832	136	39	IC703	168	173
D833	138	41	IC704	182	170
D834	135	50	IC801	102	82
D835	138	51	IC802	141	104
D836	130	113	IC803	135	131
D837	117	128	IC804	142	64
D838	142	53	IC805	122	78
D839	123	22	IC806	130	154
D850	291	33	IC807	130	161
D851	88	139	IC811	147	129
D901	159	29	IC812	143	89
D906	235	16	IC901	230	52
D908	223	81	IC902	239	57
D909	226	81	IC903	251	31
D910	228	81	ICK01*	250	185
D912	199	27	ICK02*	237	218
D913	183	14	ICL01*	210	202
D914	202	27			
D916	180	15			
D918	172	81			
D919	161	94			
D921	173	21			
DL01*	227	185			
DL02*	227	192			
DZ702	179	152			
DZ704	293	195			
DZ705	198	214			
DZ706	205	217			
DZ707	208	217			
DZ801	9	27			
DZ802	93	85			
DZ803	101	161			
DZ804	135	110			
DZ805	120	120			
DZ806	50	9			
DZ901	166	27			
DZ902	245	30			
DZ904	124	170			
DZ905	153	69			
DZ906	184	64			

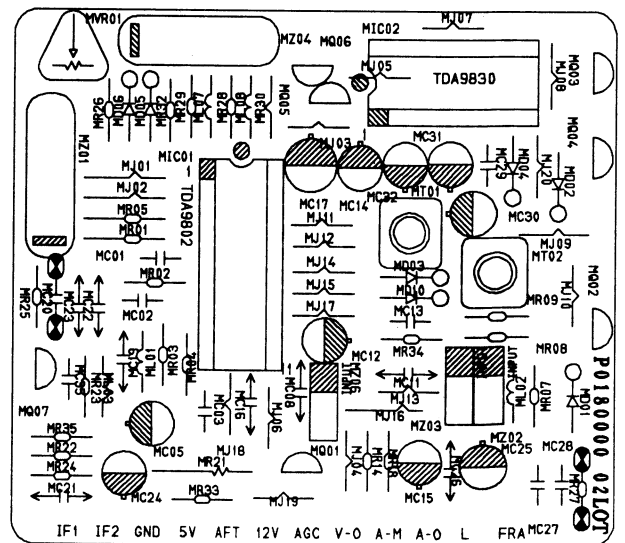
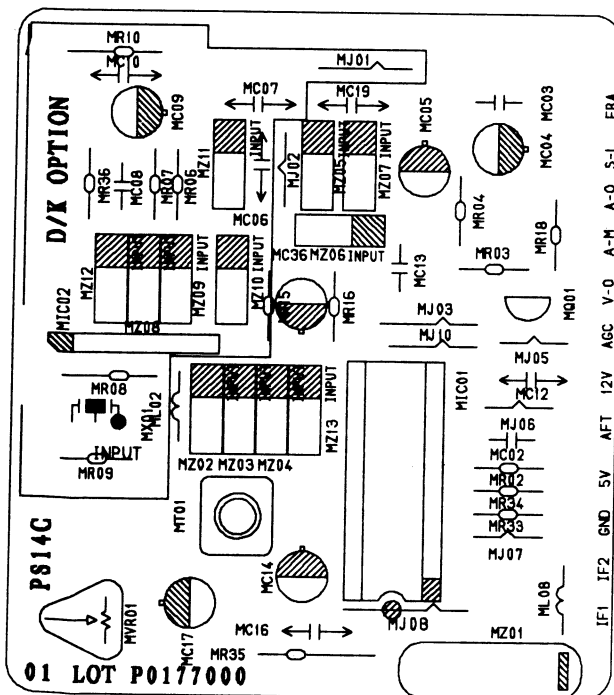
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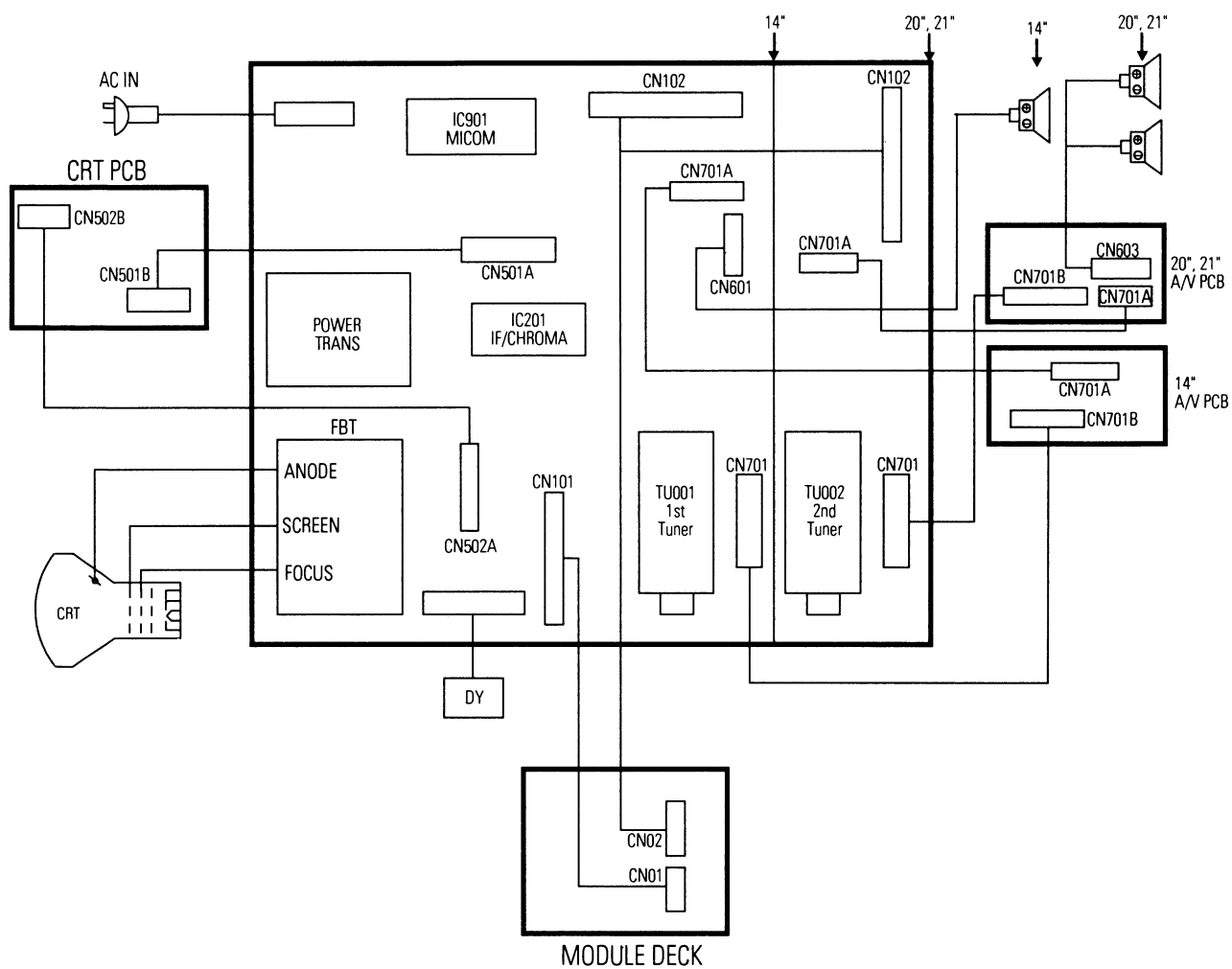
## 10-5 TTX

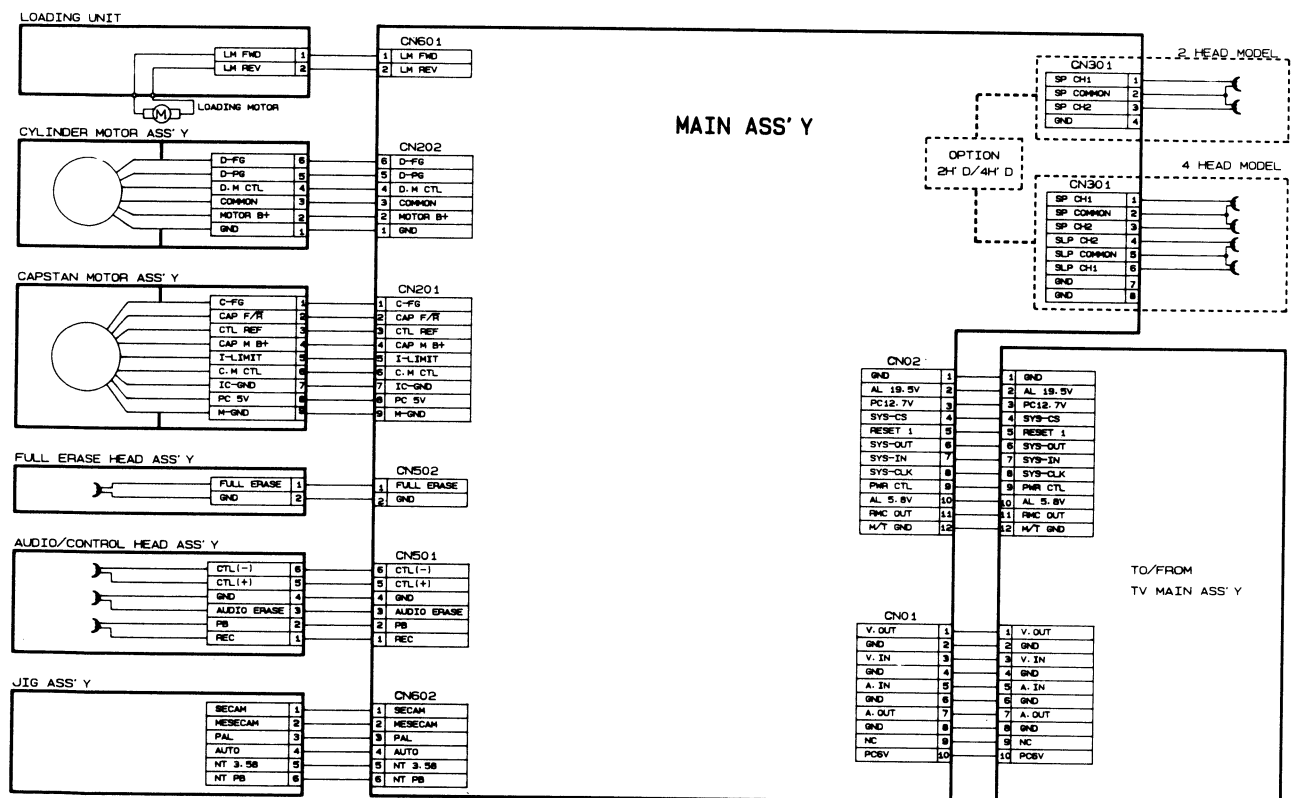


## 10-6 IF



## 11. Wiring Diagrams



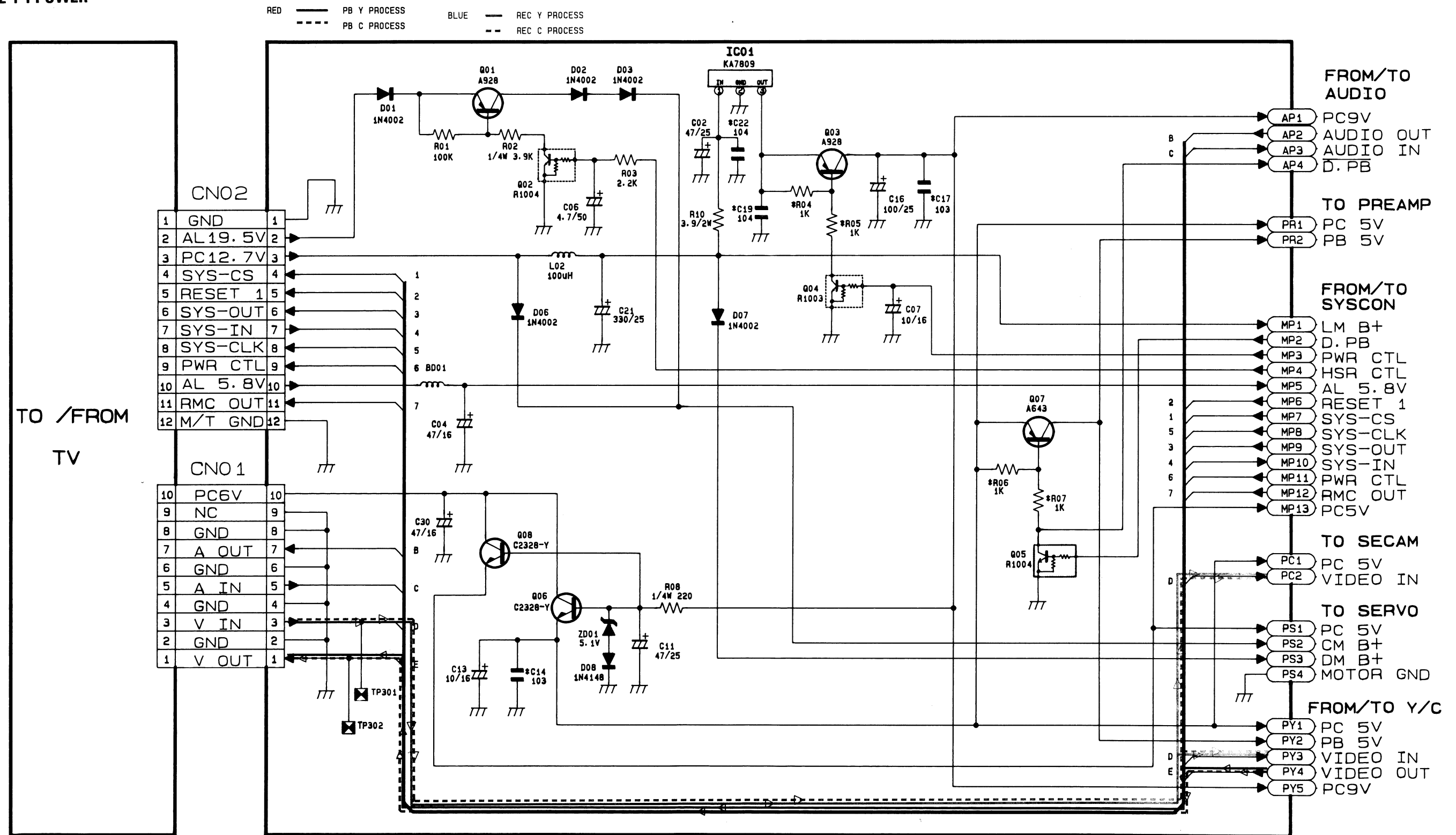




## 12. Schematic Diagrams

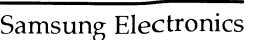
### 12-1 VCR

#### 12-1-1 POWER

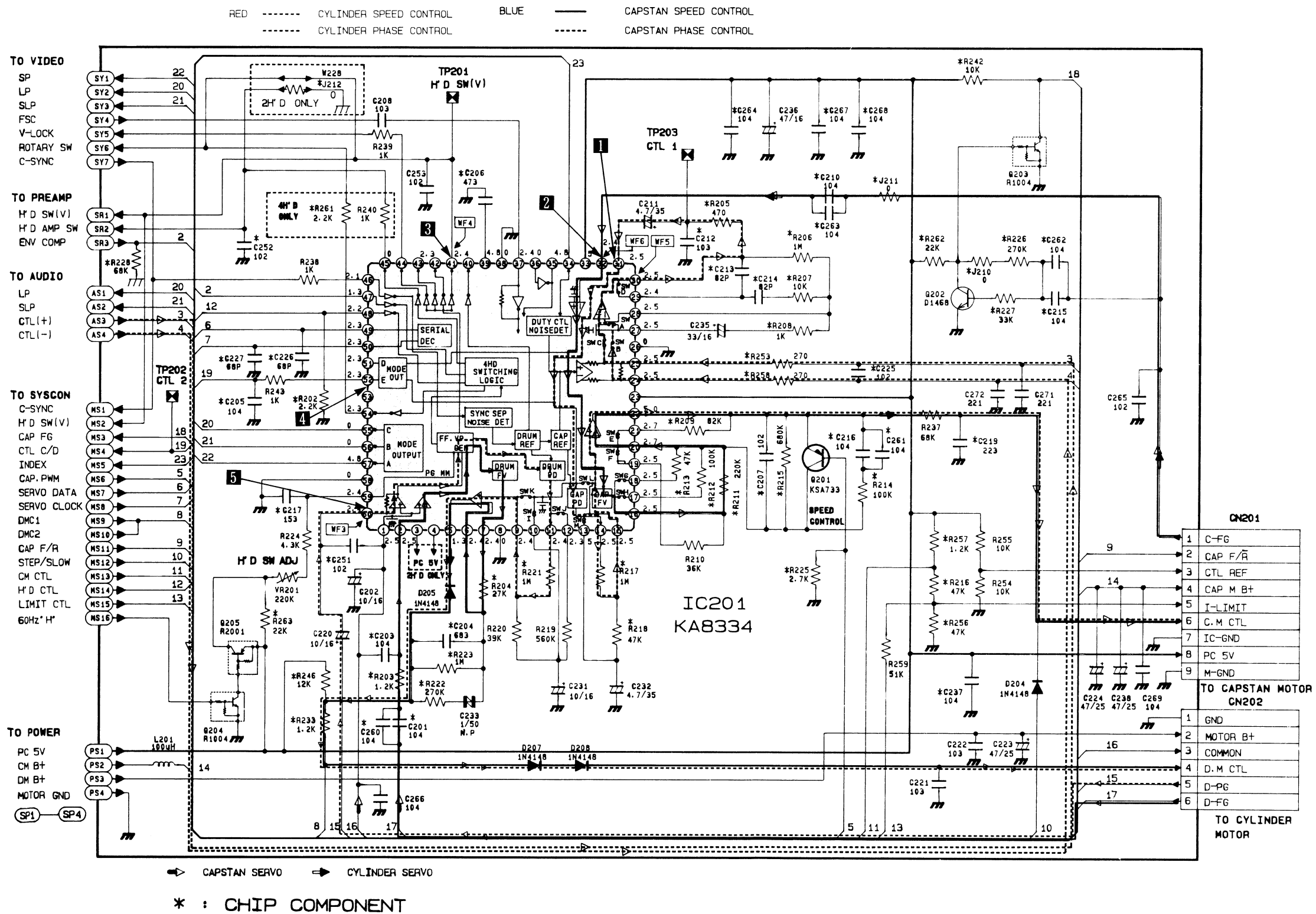


\* : CHIP COMPONENT

## 12-2



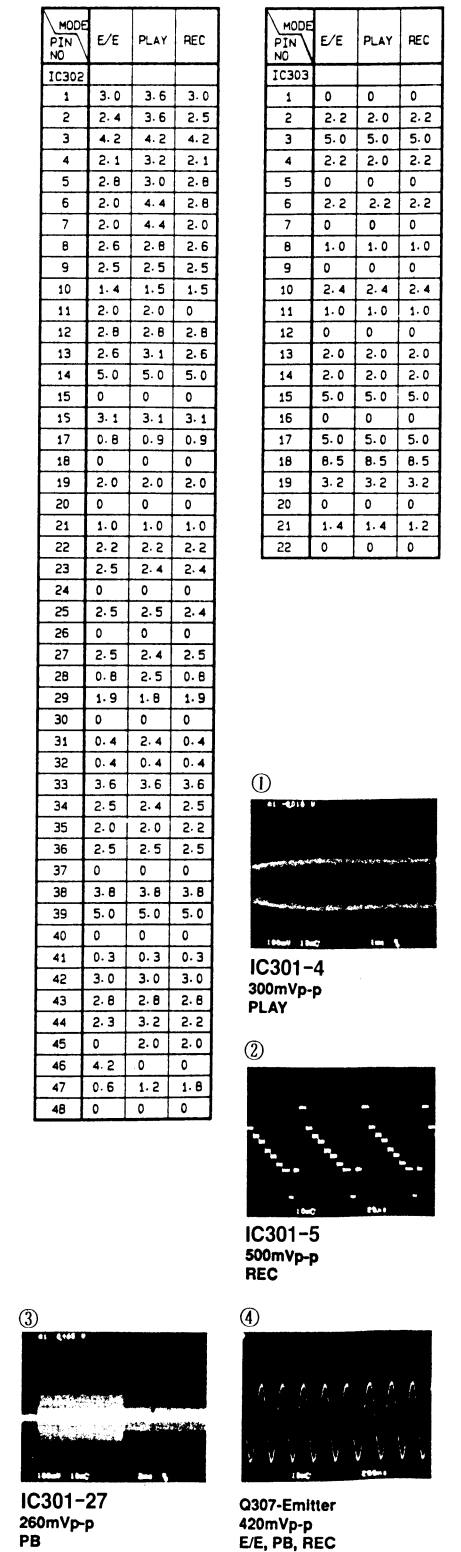
### 12-1-3 SERVO



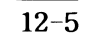
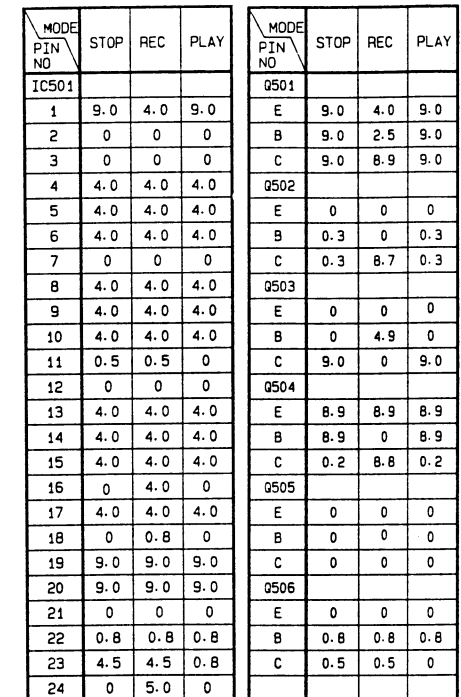
MODE PIN NO	STOP	REC	PLAY
10201			
1	2.5	2.4	2.5
2	2.5	2.5	2.5
3	2.5	2.5	2.5
4	2.5	2.5	2.5
5	1.6	1.6	1.6
6	2.5	2.5	2.5
7	2.5	2.5	2.5
8	0	0	0
9	2.5	2.5	2.5
10	1.8	0.2	0
11	2.5	2.5	2.5
12	2.3	2.3	2.3
13	5.0	5.0	5.0
14	5.0	2.5	2.5
15	2.5	2.5	2.5
16	0	0	2.5
17	0.8	2.5	2.5
18	0.1	2.5	2.5
19	1.1	2.5	2.5
20	5.0	2.6	2.6
21	5.0	2.6	2.6
22	5.0	5.0	5.0
23	0	0	0
24	2.5	2.5	2.2
25	2.5	2.8	2.8
26	0	0	0
27	2.5	2.5	2.5
28	2.5	2.5	2.5
29	2.5	2.5	2.5
30	2.5	2.5	2.5
31	2.5	2.5	2.5
32	2.5	2.5	2.5



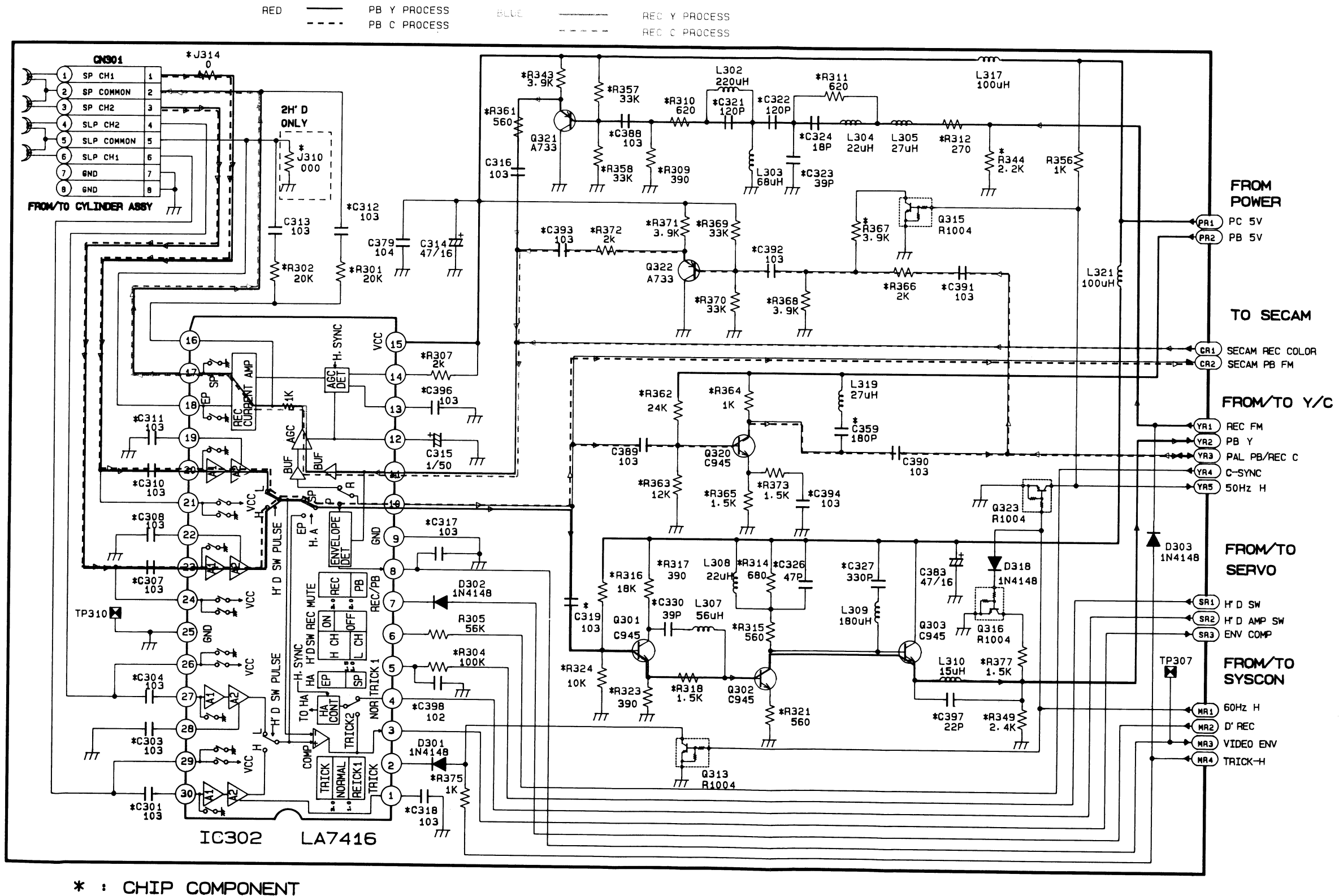
## 12-4



Samsung Electronics

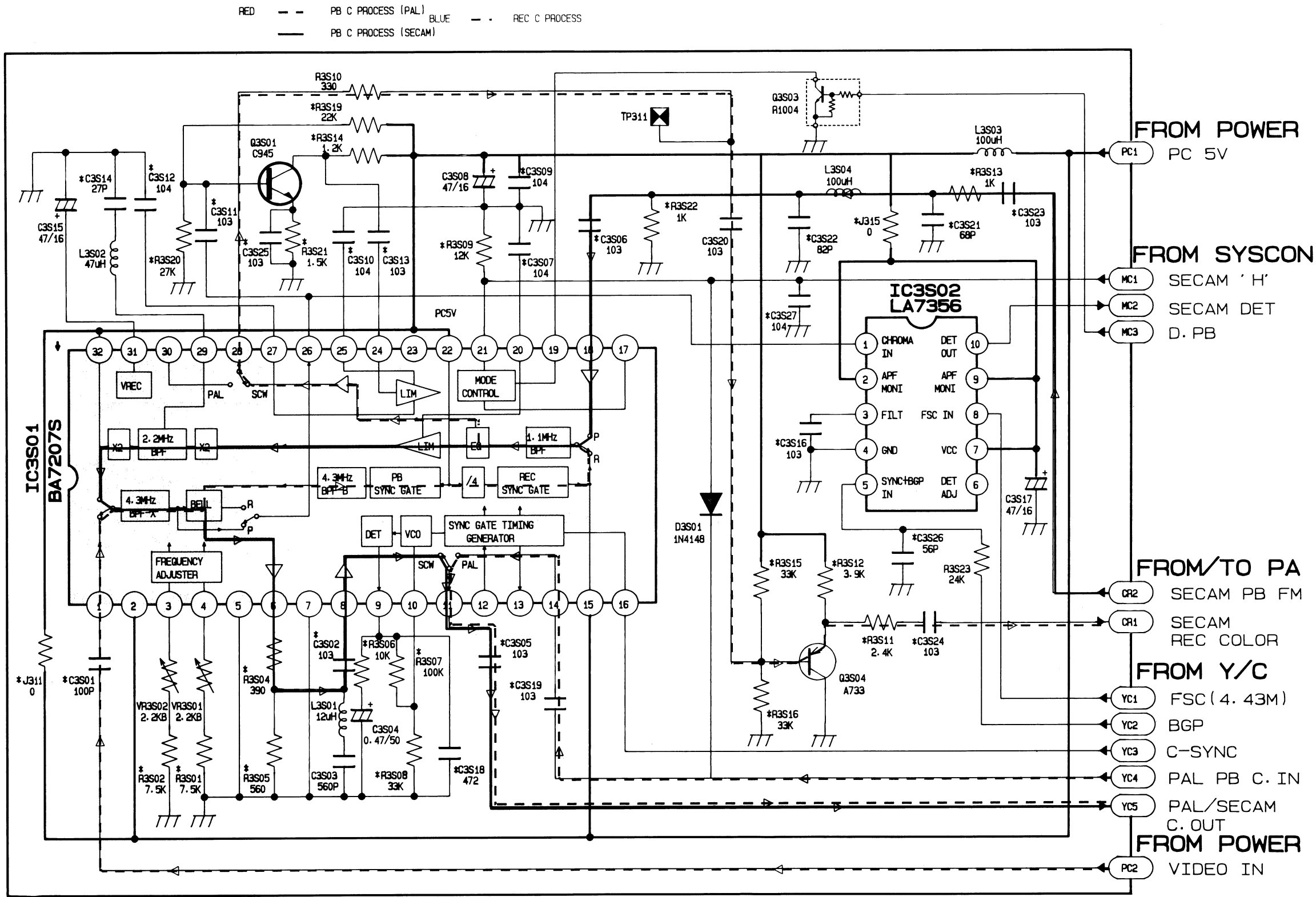


12-1-6 PRE-AMP



MODE	E/E	PLAY	REC
PIN NO			
IC301			
1	2.0	2.0	3.6
2	2.0	2.0	2.0
3	0	0	1.2
4	0	0	0
5	0	0	0
6	0.1	0.1	0.1
7	0	0	4.5
8	0.3	2.2	0
9	0	0	0
10	2.2	2.2	3.2
11	0	0	3.2
12	0	0	1.6
13	2.5	2.5	2.5
14	5.0	5.0	4.0
15	5.0	5.0	5.0
16	0	0	1.5
17	0	0	2.3
18	0	0	0
19	2.0	2.0	3.6
20	0.6	0.6	0.1
21	0	0	4.0
22	2.0	2.0	3.6
23	0.6	0.6	0
24	0	0	4.0
25	0	0	0
26	0	0	0
27	0.6	0.6	0.1
28	2.0	2.0	3.6
29	0	0	0
30	0.6	0.6	0.1

12-1-7 SECAM



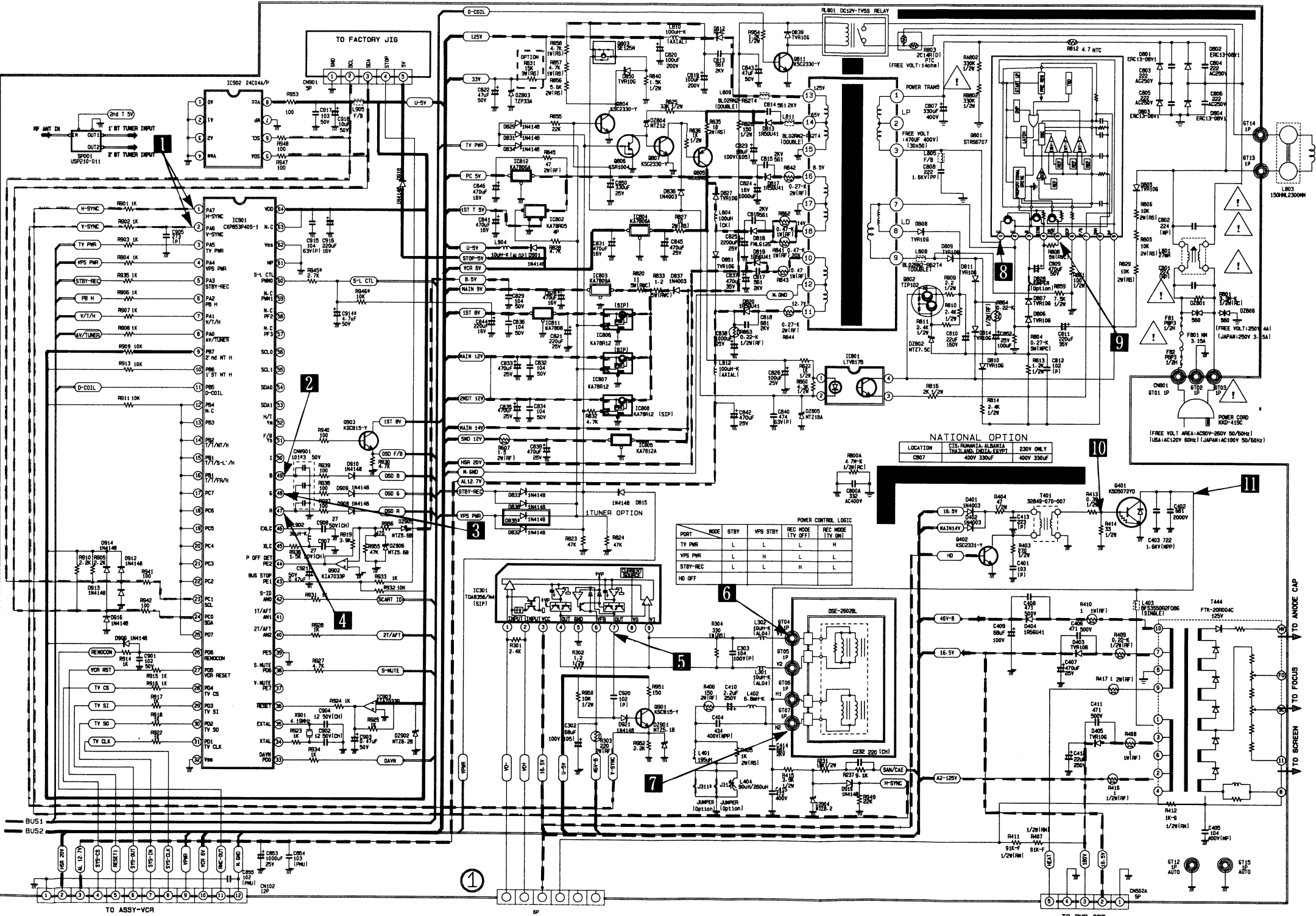
\* : CHIP COMPONENT

MODE PIN NO	STOP	REC	PLAY
IC3S01			
1	2.4	2.4	2.4
2	5.0	5.0	5.0
3	1.8	1.8	1.8
4	1.8	1.8	1.8
5	0	0	0
6	1.8	1.8	1.8
7	0	0	0
8	3.0	3.0	3.0
9	1.8	1.8	1.8
10	2.0	2.0	2.0
11	2.3	2.3	2.3
12	2.4	2.4	2.4
13	2.4	2.4	2.4
14	3.0	3.0	3.0
15	5.0	5.0	5.0
16	4.2	4.2	4.2
17	4.8	4.8	4.8
18	2.5	2.5	2.5
19	4.8	4.8	0
20	0	0	2.5
21	4.8	4.8	4.8
22	5.0	5.0	5.0
23	5.0	5.0	5.0
24	2.0	2.0	2.0
25	2.0	2.0	2.0
26	2.0	2.0	2.0
27	2.3	2.3	2.3
28	2.4	2.4	2.4
29	1.0	1.0	1.8
30	3.0	3.0	3.0
31	2.5	2.5	2.5
32	5.0	5.0	5.0



12-2 TV

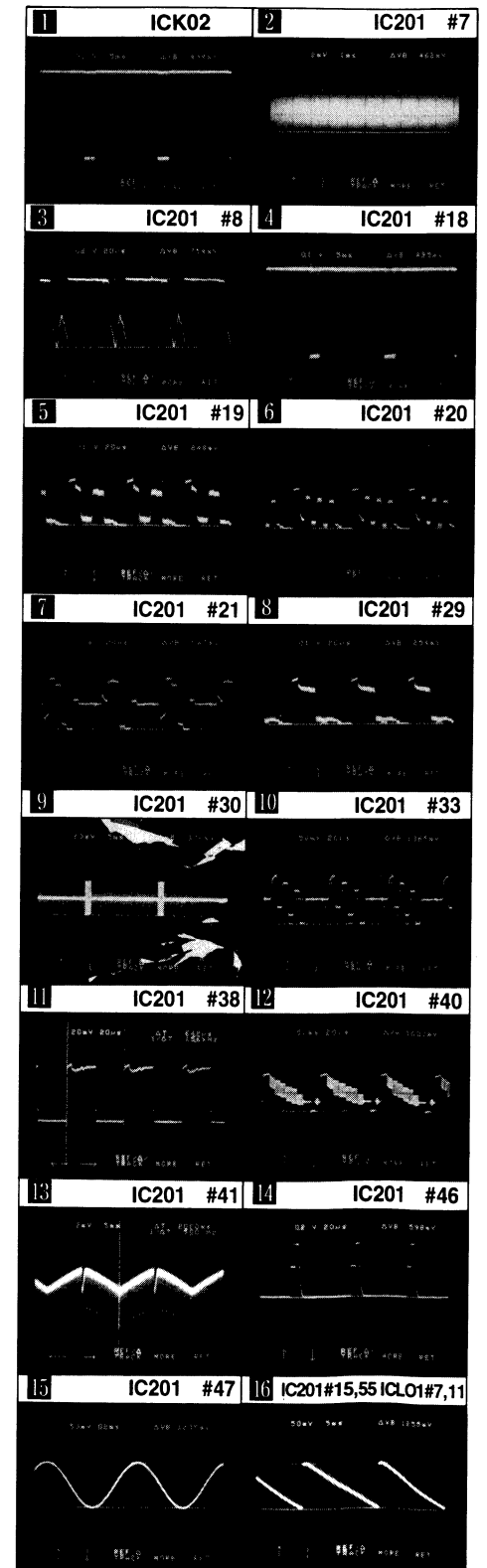
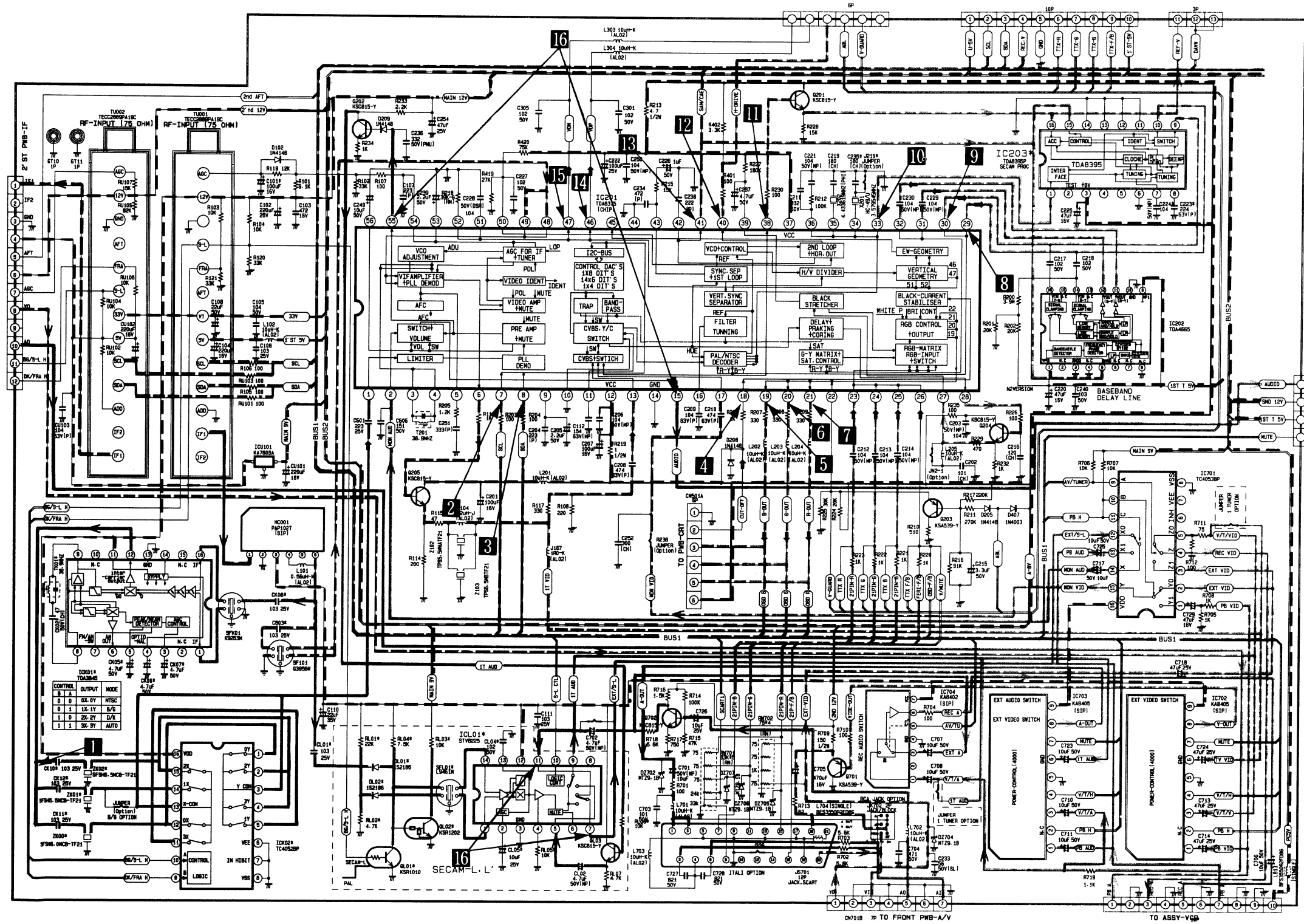
12-2-1 MICOM



1	IC901 #1	1	IC901 #2
2	IC901 #49	3	IC901 #48
4	IC901 #47	5	IC301 #7
6	V1	7	H2
8	Q801 #1	8	Q801 #1
8	Q801 #1	9	Q801 #5
10	Q401 B	11	Q401 C



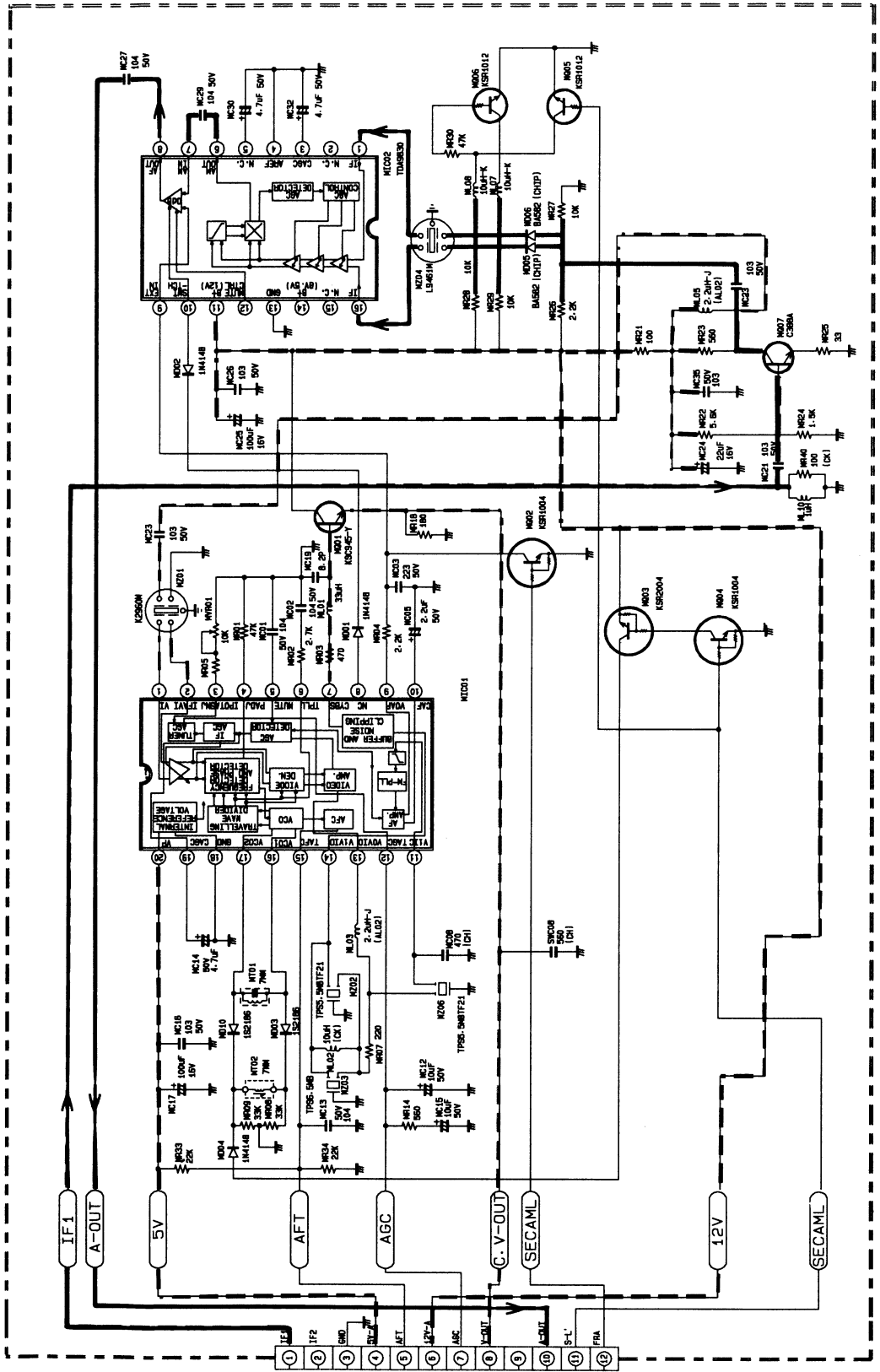
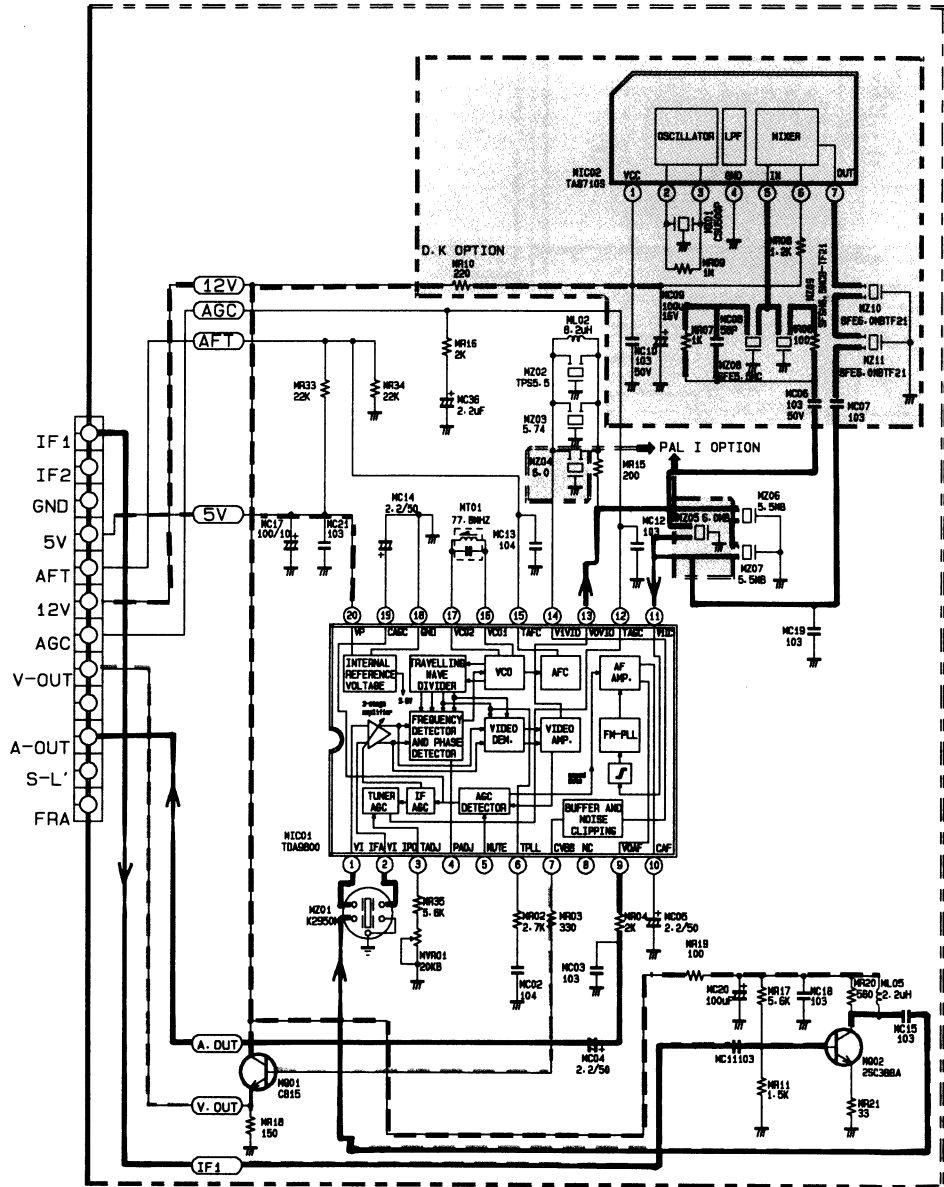
# 12-2-2 A/V SWITCHING



TO-40SSIP CONTROL LOGIC						
#6(DHREBIT)	#9	#10	#11	#14	#15	#4
L	L	L	L	12	2	5
L	L	L	H	13	2	5
L	L	H	L	12	1	5
L	L	H	H	13	1	5
L	H	L	L	12	2	3
L	H	L	H	13	2	3
L	H	H	L	12	1	3
L	H	H	H	13	1	3
H	S	S	S	NONE	NONE	NONE

KAR409 CONTROL LOGIC			STV8285 CONTROL LOGIC		
#2	#4	OUTPUT (#8)	#10	OUTPUT (#7)	OUTPUT (#9)
H	L	1	2.3V	S-L	#5
L	H	3	4.6V	S-L	S-L
L	L	5	5.8V	#11	S-L
H	H	X	5.8V-1	#11	#5

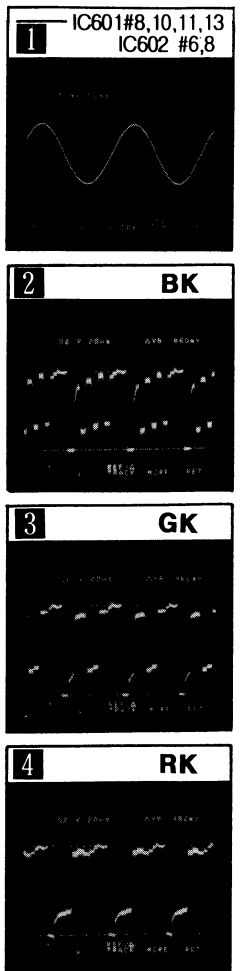
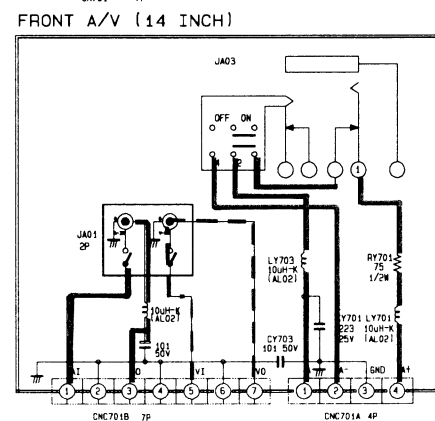
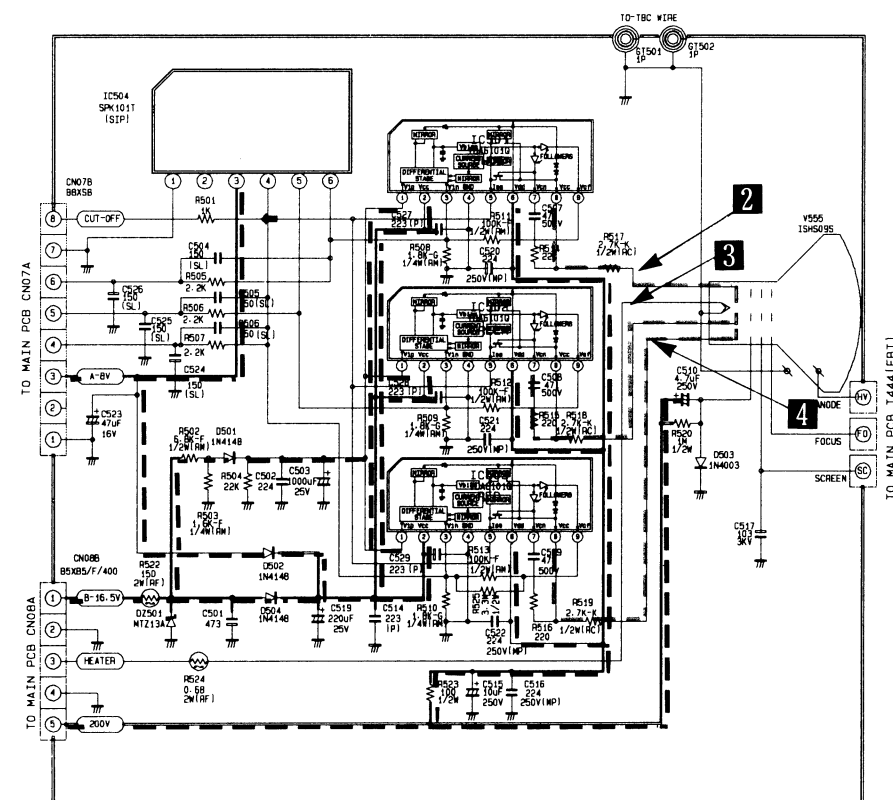
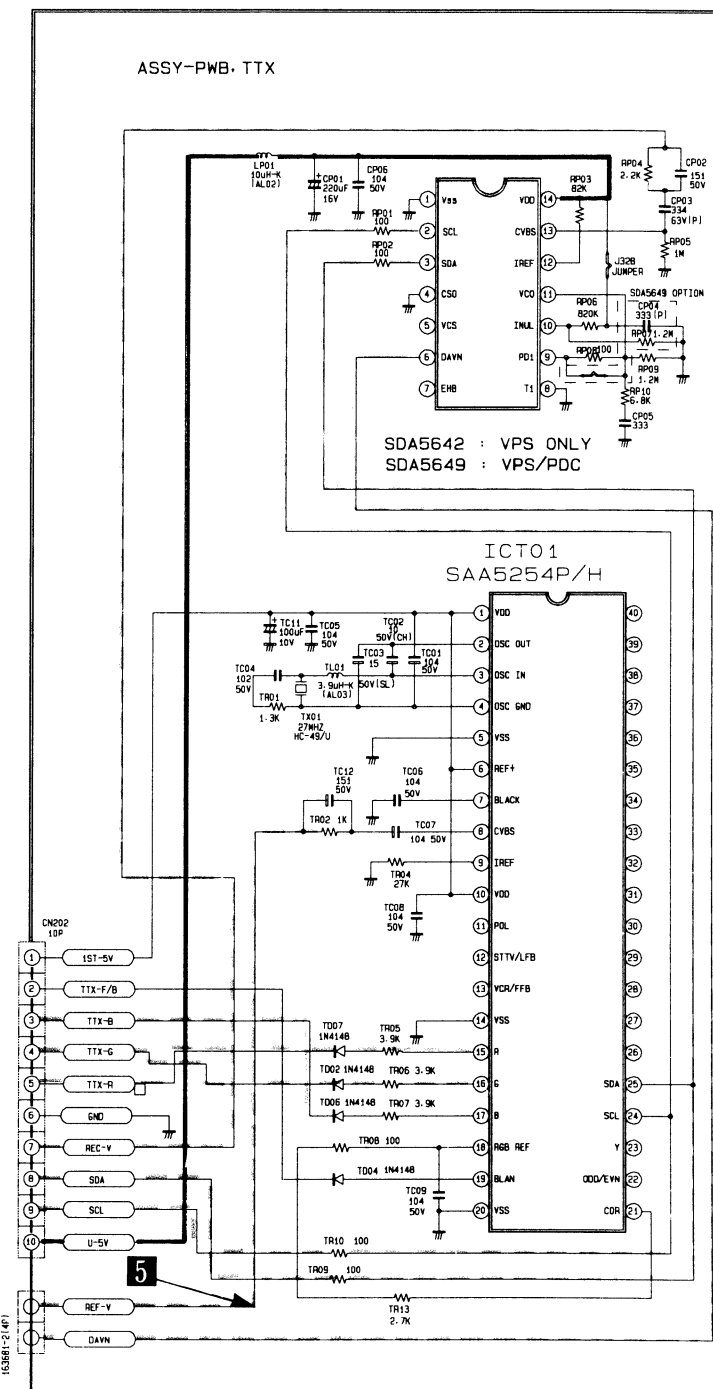
SAY FILTER SPEC				
PAL/SECAM	SAW1	SAW2	SAW3	SAW4
PAL/SECAM	DFW K3250K	X	X	X
PAL/SECAM	DFW K5263K	X	X	X
PAL/SECAM	DFW K5263K	X	DFW K3253M	X
PAL/SECAM	X	DFW 61875M		DFW L9461M
B/G ONLY	DFW 61956M	X	X	X
PAL/SECAM	DFW 61956M	X	X	X
PAL I	DFW J1955M	X	X	X



— : Power Line  
— : Signal Line

Samsung Electronics

12-11



Power Line

## Terminal Voltages of IC and TR

### \* Conditions of Measurement

1. Normal Condition
2. Receiving Color Bar Pattern
3. DC Voltage

**Q801** STR6707

Units :Volts

PIN NO.	PIN NAME	STAND-BY	POWER ON
1	C	298	291
2	E	-	-
3	B	0.8	0.5
4	SINK	-	0.7
5	DRIVE	-	1.3
6	OCP	-	-
7	F/B	-	-
8	INH	-	1.3
9	B+	6.3	7.7

**IC801** LTV817B

Units :Volts

PIN NO.	STAND-BY	POWER
1	9.2	14.3
2	8.2	13.3
3	3.2	1.2
4	6.3	7.7

**IC501~IC503** TDA6101Q

Units :Volts

PIN NO.	PIN NAME	VOLTAGES (V)
1	Vip	2.1
2	Vcc	12.3
3	Vin	2.1
4	GND	-
5	Iom	8.3
6	Vdd	172.6
7	Vcn	96~120
8	Vcc	96~120
9	Vof	96~120

## Terminal Voltages of IC and TR (Continued)

**IC301** TDA8356

PIN NO.	PIN NAME	VOLTAGES (V)
1	VD-INPUT	2.2
2	VD+ INPUT	2.2
3	Vcc	15.8
4	OUTPUT	7.6
5	GND	-
6	VFB	43.2
7	OUT	8.0
8	VO	-
9	VI	7.7

**IC902** 24C08, 24C04

PIN NO.	PIN NAME	VOLTAGE (V)
1	GND	-
2	GND	-
3	GND	-
4	GND	-
5	SDA	4.8
6	SCL	4.8
7	GND	-
8	VDD	5.2

**IC602** TDA7056

PIN NO.	PIN NAME	VOLTAGES (V)
1	NC	12.1
2	Vcc	12.1
3	IN	-
4	GND	-
5	NC	-
6	A+	6.2
7	GND	-
8	A-	6.0
9	NC	-

**IC601** TDA7057AQ

PIN NO.	PIN NAME	VOLTAGES (V)
1	VOL 1	1.2
2	SIG.GND	-
3	IN 1	2.4
4	Vcc	12.1
5	IN 2	2.4
6	SIG.GND	-
7	VOL 2	1.2
8	OUT 2+	5.6
9	PWA GND	-
10	OUT 2-	5.7
11	OUT 1-	5.7
12	PWA GND	-
13	OUT 1+	5.7

## Terminal Voltages of IC and TR (Continued)

**IC901**
**CXP853P40S-1**

PIN NO.	PIN NAME	VOLTAGES (V)
1	H-sync	1.2
2	V-sync	0.0
3	TV POWER	5.1
4	VPS POWER	-
5	STBY-REC	-
6	PB-H	0.0
7	V/T/H	-
8	AV/TUNER	0.0
9	2nd NT H	5.1
10	1st NT H	5.1
11	D-coil	-
12 ~ 22	Not used	5.1
23	SCL	4.7
24	SDA	4.7
25	No used	5.1
26	REMOCON	5.4
27	VCR RESET	5.1
28	TV CS	4.2
29	TV SI	4.0
30	TV SO	2.1
31	TV CLK	5.0
32	Vss	-
33	DAVN	5.1

PIN NO.	PIN NAME	VOLTAGES (V)
34	Xtal	2.5
35	EXtal	2.4
36	RESET	5.1
37	V.MUTE	-
38	S.MUTE	-
39	GND	-
40	2T AFT	3.0
41	1T AFT	-
42	SCART ID	-
43	BUS STOP	5.1
44	P OFF DET	5.5
45	XLC	3.0
46	EXLC	3.0
47	OSD R	-
48	OSD G	-
49	OSD B	-
50	NC	-
51	F/B	-
52 ~ 59	NC	-
60	S-L CTL	-
61 ~ 62	GND	-
63 ~ 64	VDD	5.1

\* Pin No 4, 5, 6, 7, 8, 11, 33, 38, 42 are High, Low output ports.

## Terminal Voltages of IC and TR (Continued)

IC201

TDA8374

PIN NO.	PIN NAME	VOLTAGES (V)
1	SOUND IF INPUT	-
2	EXT AUDIO INPUT	3.9
3	VCO REF FILTER	3.6
4	VCO REF FILTER	3.6
5	PLL LOOP FILTER	2.7
6	IF VIDEO OUTPUT	3.4
7	SCL	4.7
8	SDA	4.7
9	BANDGAP DECOUPLING	6.7
10	CHROMA INPUT	-
11	Y/CVBS INPUT	3.4
12	MAIN B+	8.0
13	INT CVBS INPUT	3.8
14	GND	-
15	AUDIO OUT	3.4
16	DECOUPLING FILTER TUNING	3.6
17	EXT CVBS INPUT	3.4
18	BLACK CURRENT INPUT	6.8
19	BLUE OUTPUT	2.6
20	GREEN OUTPUT	2.5
21	RED OUTPUT	2.7
22	BEAM CUR LIMITER	2.9
23	RED INPUT	3.4
24	GREEN INPUT	3.4
25	BLUE INPUT	3.4
26	RGB SWITCH INPUT	0.2
27	Y INPUT	1.9
28	Y OUTPUT	2.5

PIN NO.	PIN NAME	VOLTAGES (V)
29	B-Y OUTPUT	1.8
30	R-Y OUTPUT	1.8
31	B-Y OUTPUT	3.9
32	R-Y INPUT	3.9
33	SECAM REF OUTPUT	1.6
34	X-TAL (3.58)	2.6
35	X-TAL (4.43)	2.6
36	LOOPFILTER BURST PHASE DET	4.8
37	VCC	8.0
38	CVBS OUTPUT	3.3
39	BLACK PEAK HOLD CAPACITOR	4.0
40	HOR. OUTPUT	0.4
41	SANDCASTLE OUTPUT	0.5
42	PHI2 FILTER	4.1
43	PHI 1 FILTER	3.9
44	GND	-
45	EAST-WEST DRIVE	-
46	VERT DRIVE POS	2.2
47	VERT DRIVE NEG	2.2
48	IF INPUT	4.2
49	IF INPUT	4.2
50	EHT/OVP INPUT	2.1
51	VERT. SAWTOOTH CAPACITOR	3.9
52	REF. CURR INPUT	3.9
53	AGC DECOUPLING CAPACITOR	3.2
54	TUNER AGC OUTPUT	5.8
55	AUDIO DEEMPHASSIS	3.0
56	DECOUPLING SOUND DEMOD.	4.0

## Terminal Voltages of ICs

Unit : Voltage (V)

PIN NO \ IC	IC203* TDA8395P	IC202 TDA4665	IC701 TC4053BP	ICK01* TDA3845	ICL01* STV8225	IC702 KA8405	IC703 KA8405	IC704 KA8404
1	4.5	5.0	-	1.8	4.2	6.1	6.1	6.1
2	1.1	-	-	-	3.2	0.9	0.9	-
3	8.1	-	-	2.0	-	6.1	6.1	6.1
4	-	-	0.9	4.4	0.6	-	-	-
5	-	0.5	0.9	-	4.3	-	-	0.9
6	-	-	-	1.7	3.5	6.1	6.1	5.3
7	3.3	-	-	1.7	4.3	-	-	9.0
8	4.2	-	-	5.1	6.3	5.3	5.3	
9	2.9	5.0	0.9	5.1	4.3	9.0	9.0	
10	2.9	-	0.9	-	3.5			
11	-	3.0	0.9	12.0	4.3			
12	-	3.1	4.3	1.8	9.0			
13	-	-	-	-	4.3			
14	-	1.6	4.3	6.1	4.3			
15	0.5	-	-	0.6				
16	2.8	1.4	9.0	1.8				